Egyptian British Co.

Specialty Chemicals & auxiliaries

Solvent Based Resins

Product Guide

Growing Together

Facts & Figures

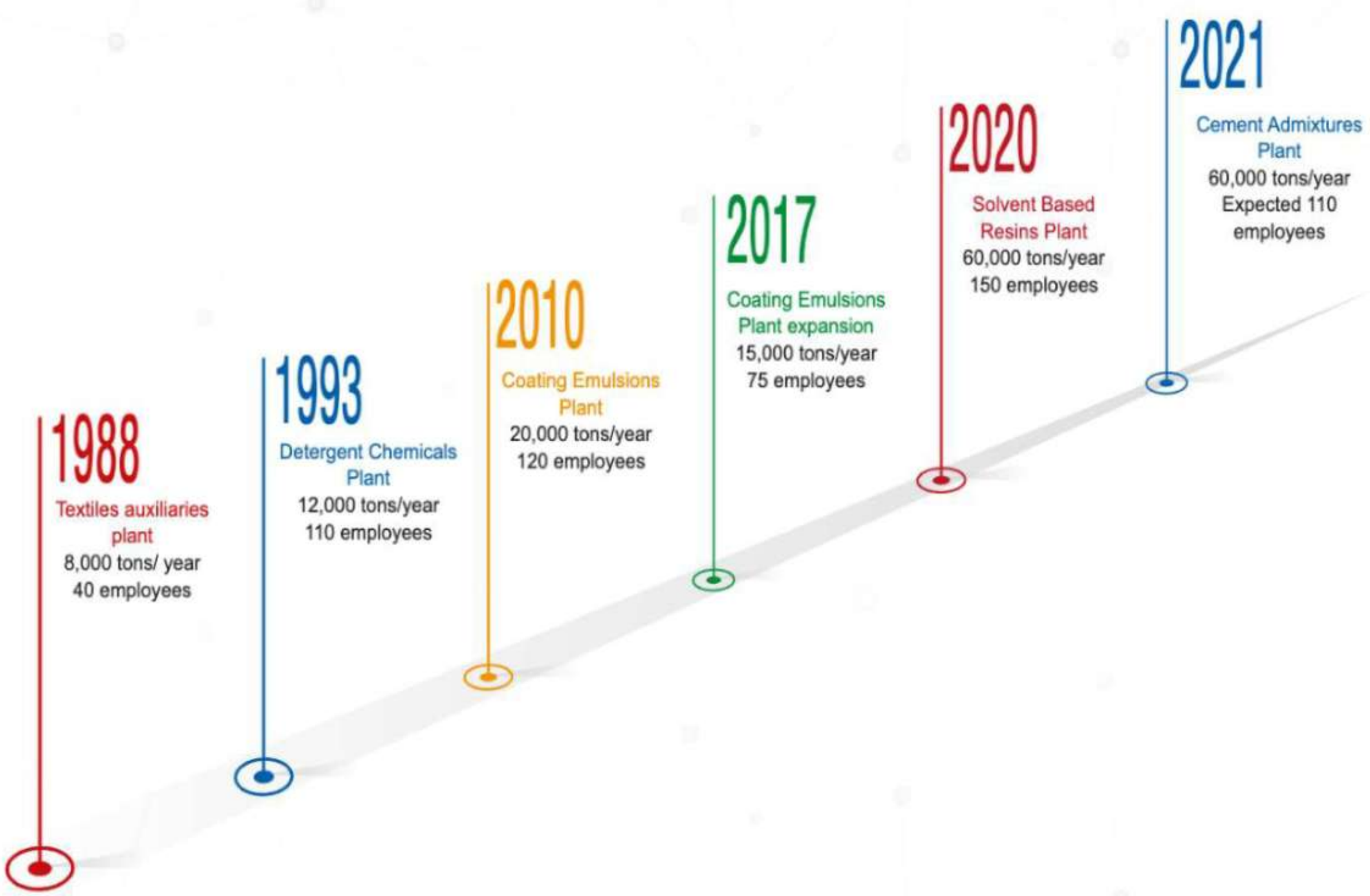
- Egyptian company with approximate $100 million in sales & overall annual general production capacity of more than 175,000 MT.
- Diversified chemicals technology provider for coatings, composites, detergents, textiles, papers and ceramics.
- Approximate 750 employees & more than 1200 customer worldwide.
- 6 production facilities.
- 6 Research and application technology labs.
- Broad range of solutions for key coating segments: decorative, industrial, automotive, protective, inks, wood and specialty additives.

Introduction

Egyptian British Co. – New concept in material solutions

As one of leading manufacturer of coatings raw materials, Egyptian British Co. offers an extensive range of innovative products and solutions for the coatings and adhesives industries.

At Egyptian British Co., we invest not only to address the key global challenges of population growth, climate change, digitalization and increasing mobility; but we invest to have a sustainable business that enables us to live up to our business purpose of "*We grow together*".



We are proud of over than 25 years of investment and growing up. But we are not defined by our past. Even with the experience behind us, Egyptian British Co. remains a young enterprise.

In a corporate world, we want to act in a curious, courageous, and colorful way trying out new things, questioning established ways, and pushing boundaries – for your benefit.

We offer a very wide choice of technologies to obtain the optimum performances from your formulations, ensuing our quality consistency through a well-equipped application lab that consists of the most recent instruments that increase our control on our products to ensure its consistency levels.

Vision

We see ourselves one of the main players in Egyptian, Middle East and African specialty chemicals market looking forward to being one of the most important players in the world, by maximizing our values that we provide to all associates, also by developing and strengthening our main strategic pillars.

Mission

To be one of the pioneers of specialty chemicals, chemical auxiliaries, resin and polyester manufacturers with our support of employees and their participation in decision making, which helps different manufacturers in different sectors such as coatings, composites, paper, detergent, ceramic, etc. to compete in Egypt, Africa, the Middle East and worldwide.

Strategy

We adopt a strategy to provide more value by maximizing six strategic columns which are Invention, Quality, Service, Flexibility, Delivery, Competitive cost.

Egyptian British Co. – the respected concept in material solutions

Quality and sustainability of quality is one of the most important factors required in the present market, with the availability of ready to be delivered products in a short lead time and a reasonable price is our main business concept.

With Egyptian British Co., Our valuable partners will get rid of all quality inconsistency challenges and will be able to reduce the cost of their products, also they will find that we always work hard to get in a direct touch with our customer's voice, deeply understand and know their needs.

We have the ability to add a higher value to our product and our services as a deep realizing of our customers desires.

Diversified Chemicals Provider

Diversified chemicals solutions with expanded production capacities, we serve several industrial sectors, like coatings from most of types, composites, detergents, textiles, ceramics, papers and constructions.

Solvent Based Resins-Coatings & Composites

Covering most of needed resins in the field of car refinish, wood, decorative coatings, composites and adhesives
Moreover, we offer a potential range of solvent based additives like wax dispersion, alkyd emulsifier and alkyd driers.

Extra Entire Value Chain

We are enriching our entire value chain by massive tank farm capacity, well-equipped application, R&D, QC laboratories, diversified packing capabilities, enterprise resource planning system, … etc.
All those items are in order to provide our esteemed clients a consistent level of service.

Business Expansion

It is difficult to get through a single day without coming in need for *"well-prepared wood coating"* raw materials with a consistent Quality and great appearance, thus Egyptian British Co. is investing to fulfill this message.

Especially in the binders manufacturing fields both water based, solvent based and other coating and composites additives.

Expanded Facilities

Recently, we had the expansion on levels of assets, capital, employments and innovation with this expansions, our employees work diligently every day to ensure that we are ready to meet your needs, exceed your expectations and deliver solutions for today's challenges and tomorrow's opportunities.

So you may only have contact with a few of our employees, taking into consideration that there are many qualified employees who are working to guarantee your success through R&D, technical service, marketing, sales, manufacturing, quality assurance, customer Service and more with only one message in subconscious that **"Our Success is measures by your satisfaction".**

Quality Comes First

Nowadays, the quality demands made on industrial processes are very high. This is equally true of the costcutting requirements.

However, both goals can be achieved by increasing the back-process efficiency, so that we worked at Egyptian British Co., to offer a wide range of solutions designed to enhance your process efficiency.

Optimum Performance

We offer a very wide choice of technologies to obtain the optimum performances from your formulations, ensuring our quality consistency through a well-equipped application lab that consists of the most recent instruments that increase our control on our products efficiency level.

We use our capabilities in order to create solutions that nourish, protect, and improve all performances and contribute to a more sustainable business. This is reflected in how we approach the resins business.

Brighter Future

Some companies see sustainability as a challenge, But at Egyptian British Co. For coating resins we see it as an opportunity, with endless possibilities to work together for a brighter future.

Our business is all about helping customers for easier life. At Egyptian British Co., we want to make life brighter for people, today and in coming generations.

By exchanging ideas and collaborating openly, we are making a difference, ensure profitability, and protect the planet.

Brighter Living

This means Brighter Living for everyone. Now you can rest your wine Glass on a beautifully lacquered coffee table without leaving a stain.

Or repair your old car converting it to *"an amazing shaped refinished car"* without the fear of any weathering, aging effect or yellowing appearance on its paint, that's the real beauty of Bright Science, brightening lives wherever and whenever it touches them.

Table Of Content

Families

Product	Description
Solvoya® L	Long oil alkyd resin
Solvoya® M	Medium oil alkyd resin
Solvoya® D	Air-dry short oil alkyd resin
Solvoya® N	Air non-dry short oil alkyd resin
Solvoya® UA	Urethanated alkyd resin
Solvoya® UO	Urethanated oil resin
Solvoya® CP	Copolymerized alkyd resin
Solvoya® DB	Double boiled oil
Solvoya® TH	Thixotropic alkyd resin
Solvimor® U	Unsaturated polyester resin
Solvimor® SP	Saturated polyester resin
Solvimor® AH	Polyol acrylic resin
Solvimor® AP	Thermoplastic acrylic resin
Solvimor® AT	Thermosetting acrylic resin
Solvimor® EP	Epoxy resin
Solvimor® AM	Amino resin
Solvimor® FP	Flexible packaging resin
Solvidur® AE	Alkyd emulsifier
Solvidur® WD	Wax dispersion
Solvidur® AD	Alkyd driers
Solvidur® AL	Aliphatic polyisocyanate hardeners
Solvidur® AR	Aromatic polyisocyanate hardeners

Product Grades

Abbreviation	Description
L	Long alkyd grade
M	Medium alkyd grade
D	Short air dry alkyd grade
N	Short air non-dry alkyd grade
UA	Urethenated alkyd grade
UO	Urethenated oil grade
C	Copolymerized alkyd grade
DB	Doble boiled oil grade
TH	Thixotropic alkyd grade
U	Unsaturated polyester grade
U-BU	Buttons UPE-grade
U-BT	Bath tubs back-up UPE-grade
U-ISO	Iso phthalic UPE-grade
U-MF	Metal filler UPE-grade
U-MS	Marble surfacer UPE-grade
U-GP	General purpose UPE-grade
U-S	Wood sealer UPE-grade
U-LR	Roofing sheets UPE-grade
SP	Saturated polyester resin
A	Acrylic grade
AH	Hydroxy (polyol) acrylic resin
AP	Thermoplastic acrylic resin
AT	Thermosetting acrylic resin
AT-A	Thermosetting acrylic acrylamide
AT-H	Thermosetting acrylic hydroxylated
FP	Flexible packaging resin
SB-A	Solvent base flexible packaging - hardner
SB-C	Solvent base flexible packaging - resin
SL-A	Solvent less flexible packaging - hardner
SL-C	Solvent less flexible packaging - resin
DR	Alkyd driers
DR-Co	Alkyd driers - cobat octoate
DR-Zr	Alkyd driers - zirconium octoate
DR-Ca	Alkyd driers - calcium octoate
DR-Pb	Alkyd driers - lead octoate
DR-Mn	Alkyd driers - manganese octoate

Solvent Types

Abbreviation	Description
B	Butanol
BA	Butyl acetate
EA	Ethyl acetate
MPA	Methoxy propyl Acetate
MP	Methoxy propanol
N	Solvent naphtha
T	Toluene
W	White spirit
WK	Special grade of white spirit
X	Xylene
MS	Mixed solvent
NS	No solvent
ECO	Aromatic solvent free

Co-reactant & Co-solvent

Abbreviation	Description
AC	Acrylics
R	Rosin
SM	Styrene monomer
VT	Vinyl toluene

Physical specs testing notes

- (BF) viscosity: Iso 2555 at 25°C [mPa · s].
- Acid value [mgKOH/g].
- Brookfield viscosity is measured at the reduced form of the product.
- OH% based on material delivery form.

Solvoya®

Liquid alkyd resins

Solvoya® group of products represents the top diversified excellent quality liquid alkyd resins including both long, medium, urethanated alkyds, urethanated oil, copolymerized alkyds, double boiled linseed oil and thixotropic alkyd resins.

We work smartly, hard with coating and industrial protecting surfaces manufacturers to find new ways to beautify and protect valuable pieces through the use of specialty resins for paint systems based on specialized resins, using our well-based assets.

High gloss chain stopped long alkyd resin

Definitely it is a challengeable needed balance to obtain both fast drying time with optimum gloss, we offer the suitable resin for that applications based on chain stopped long and medium oil alkyds.

Within 8 minutes only, you can get a dry film for high performance coatings with very fast drying time and satisfying gloss levels for varnishes and rest of coating types.

Short fast dry alkyd resins

With separate multiple choices, it helps finding the ideal product for the required performance, especially for applications that need a very fast drying time like top varnishes, road marking, etc.

Modified alkyds

Urethanated oils and alkyds are used as the sole binder where fast drying, hardness and abrasion resistance are required.

The urethanated oils and alkyds have the highest levels of modification and are especially designed for parquet flooring and heavy traffic areas with excellent chemical resistance.

Economic short resins

Egyptian British Co. is producing also the cost effective short alkyds under a very high performance levels to cover all market needs.

Low VOC range

We meet VOC global regulations by offering high solids alkyds and alkyds based on zero aromatic solvents, with same and higher performance on all fields

Thixotropic alkyd

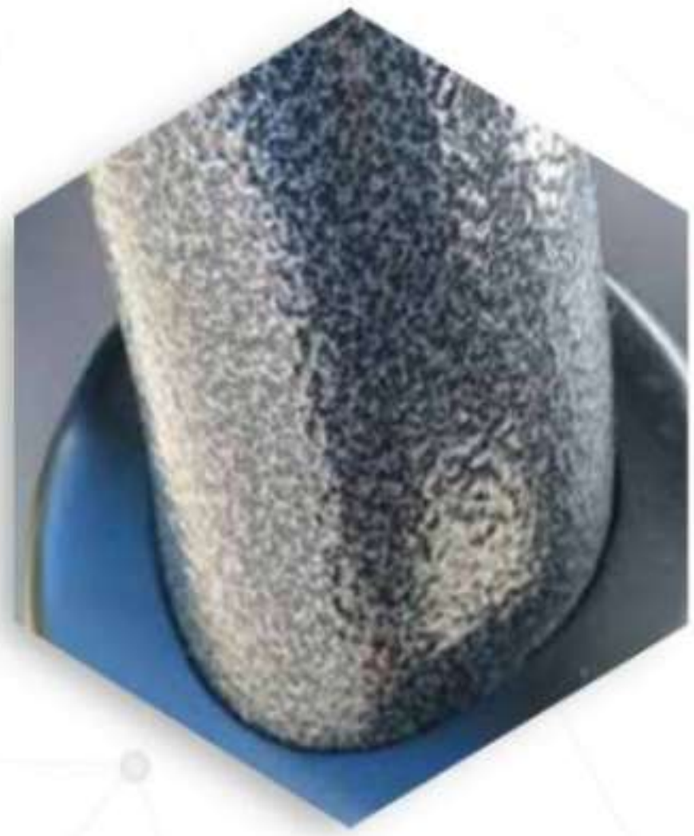
We are pleased also to introduce our thixotropic resins for supply to the deco rative coatings market. During this time we have grown our expertise in this field and now offer an unrivalled range of products to meet your rheological needs, the benefits of thixotropic alkyds in coating formulations are pigment suspension, ease of application, non –drip application, reduced sagging, good leveling.

High viscosity, fast drying medium oil alkyd

Very fast drying time, good hardness & flexibility, good recoatability suitable for automotive refinish paints, machinery paints, drum paints and most of air dry applications.

Non-yellowing short alkyds

Based on synthetic and coconut fatty acids we offer excellent yellowing resistance, wetting properties, good color retention for NC-systems, cellulose nitrate finishes and high gloss, hardness, flexibility for PU-systems with good compatibility with polyol acrylics for automotive refinish.



Copolymerized Alkyds

Due to its very fast drying time , it is the ideal choice for many applications that requires short time to dry like top coats, primers, road marking. It is also possesses an amazing pattern for the hammer finish coatings due to its unique formulation.
Also now you can use it for aluminum metallic coatings without any coagulation hazards.

Solvoya® L

Liquid long oil alkyd resins

Product Specifications

Grade	Supply Form		Composition				
	Solids ±1%	Solvent type	Oil type	Oil %	PA%	Type of polyol	Approx Viscosity (Gardner)
HIGH SOLIDS - LONG OIL ALKYDS							
L1527-NS	99	No solvent	Soya oil F.A & Soya bean oil	85	8	Mixed polyols	Z1-Z3 at 100%
L1125-NS	99	No solvent	Low rosin tall oil F.A.	89	7	Mixed polyols	Z-Z2 at 100%
L1640-NS	99	No solvent	Low rosin tall oil F.A. & Dehydrated castor oil	84	10	Mixed polyols	Z2-Z4 at 100%
L30170-NS	99	No solvent	Linseed oil	70	20	Pentaerythritol	Z6-Z7 at 100%
L3215-NS	99	No solvent	Soya oil F.A & Soya bean oil	68	20	Pentaerythritol	W-Y at 100%
L3605-W	80	White spirit	Soya oil F.A & Soya bean oil	64	24	Pentaerythritol	O-T at 70% & Z at 80%
L3620-W	80	White spirit	Soya oil F.A & Soya bean oil	64	30	Mixed polyols	O-P at 60% & Y-Z at 70%
AROMATIC SOLVENT FREE - LONG OIL ALKYDS							
L3250-ECO	85	Zero aromatic solvent	Soya oil F.A & Soya bean oil	68	23	Pentaerythritol	Z3-Z4 at 75%
L3609-ECO	80	Zero aromatic solvent	Soya oil F.A & Soya bean oil	64	25	Mixed polyols	V at 70%
L3665-ECO	80	Zero aromatic solvent	Soya oil F.A & Soya bean oil	64	25	Mixed polyols	Z4-Z5 at 70%
CHAIN STOPPED - LONG OIL ALKYDS							
L4530-W	70	White spirit	Soya oil F.A & Soya bean oil	55	29	Pentaerythritol	Z1-Z2 at 55%
STANDARD LONG OIL ALKYDS							
L3422-W	70	White spirit	Linseed oil	66	22	Gly./Pentaerythritol	Z at 70%
L4019-WK[1]	70	White spirit	Linoleic rich fatty acid	60	29	Mixed polyols	Z8 at 70% & Y-Z at 55%
L4046-WK	70	White spirit	Linoleic rich fatty acid	60	29	Mixed polyols	Z3-Z4 at 55%
L3865-WK	70	White spirit	Soya oil F.A & Soya bean oil	62	30	Mixed polyols	Z4-Z5 at 70%
L3919-WK	70	White spirit	Soya oil F.A & Soya bean oil	61	28	Pentaerythritol	Y-Z at 55%
L3936-WK	70	White spirit	Soya oil F.A & Soya bean oil	61	30	Pentaerythritol	Z1-Z2 at 55%
L3920-W[2]	70	White spirit	Soya oil F.A & Soya bean oil	61	28	Pentaerythritol	Z8 at 70% & Y-Z at 55%
L3922-W	70	White spirit	Soya oil F.A & Soya bean oil	61	28	Mixed polyols	Y-Z at 55%
L3927-W	70	White spirit	Soya oil F.A & Soya bean oil	61	28	Mixed polyols	Z1-Z2 at 55%

1- Available in HS version at 95% Solids 2- Available in LV version visc. W-X at 55%

Specifications				Characteristics and Main Applications
	Approx. BF. Viscosity	Max. Acid Value	Max. Color (Gardner)	
	2700	15	5	Ultra-high solid ,very good gloss and leveling properties for interior and exterior decorative paints.
	2500	15	5	Very low viscosity, excellent gloss and good hardness for wood oil interior and exterior coatings, alkyd oils for flooring.
	4000	15	5	Very low viscosity, excellent gloss for interior and wood tables.
	17000	15	5	Excellent gloss, drying, flow and leveling properties, very good flexibility & good gloss retention for high quality printing inks and silk screen inks.
	1500	12	5	Ultra-high solid content with very low viscosity, high gloss, very good leveling and brush-ability for interior & exterior decorative paints, varnish, very low viscosity paint & high gloss finishes.
	500	10	5	High gloss & gloss retention, very low viscosity, very good wetting properties for very high gloss enamels, interior & exterior decorative paints, special for low VOC paints, diluted with odorless kerosin.
	2000	12	5	
	5000	10	5	High gloss & gloss retention, very good wetting properties for very high gloss enamels, interior & exterior decorative paints, special for low VOC paints, diluted with odorless kerosin.
	900	10	5	
	6500	10	5	High gloss, good gloss retention, brush-ability and leveling properties, very good flexibility, for high gloss paints and exterior house paints.
	3000	10	5	Chain stopped, fast drying, good gloss and gloss retention, very good yellowing resistance & hardness for interior & exterior house paints, varnish and floor sealers.
	2200	10	5	Very good gloss, fast drying time, good weathering stability, very good adhesion properties for colored enamels and anti-corrosion primers for metals.
	1900	12	5	Based on a special excellent quality of materials that provides good gloss, gloss retention, hardness, excellent drying time for all types of decorative coatings and broad range of industrial coatings with high level of economical competition.
	4600	10	5	
	6500	10	5	
	1900	8	5	
	3600	8	5	
	2000	8	5	Good gloss, gloss retention, good adhesion, brush-ability & leveling properties, good yellowing resistance & hardness for interior & exterior house paints, varnish, floor sealers, porch and deck enamels.
	2200	10	5	
	2700	10	5	

Solvoya® L

Liquid long oil alkyd resins

Product Specifications

Grade	Supply Form		Composition				
	Solids ±1%	Solvent type	Oil type	Oil %	PA%	Type of polyol	Approx Viscosity (Gardner)
STANDARD LONG OIL ALKYDS							
L3504-W	75	White spirit	Soya oil F.A & Soya bean oil	65	24	Pentaerythritol	O-P at 60% Y-Z at 70% Z3 at 75%
L3665-W	70	White spirit	Soya oil F.A & Soya bean oil	64	25	Mixed polyols	Z4-Z5 at 70%
L3815-W[1]	70	White spirit	Soya oil F.A & Soya bean oil	62	28	Mixed polyols	Z8 at 70% & Y-Z at 55%
L3909-W	70	White spirit	Soya oil F.A & Soya bean oil	61	28	Pentaerythritol	Z6 at 70% & V-W at 55%
L4036-W	70	White spirit	Soya oil F.A & Soya bean oil	60	29	Pentaerythritol	Z10 at 70% & Z2 at 55%
L3740-W	70	White spirit	Safflower oil	63	26	Pentaerythritol	Z2-Z3 at 70%
L3997-W[2]	70	White spirit	Non- yellowing sun flower fatty acids	61	25	Pentaerythritol	Z5-Z6 at 70%
L4299-W	70	White spirit	Low rosin tall oil F.A.	58	23	Pentaerythritol	Z5 at 70%

1- Available in HV version, vis. Z3-Z4 at 55% 2- Available in LV version, visc Z8 at 70% & Y-Z at 55%

Specifications				Characteristics and Main Applications
	Approx. BF. Viscosity	Max. Acid Value	Max. Color (Gardner)	
	400	10	5	Very low viscosity, good adhesion and hardness properties, light color, high gloss and gloss retention, brush-ability and leveling properties for interior & exterior house paints, gloss enamel, high build varnish & floor sealers.
	6500	10	5	High gloss, good gloss retention, brush-ability & leveling properties,very good flexibility for high gloss paints, exterior house paints.
	1500	12	5	Very good gloss & gloss retention, good exterior durability, very good color retention.
	900	12	5	Very good brush-ability and leveling properties, light color with good yellowing resistance, high gloss & gloss retention for interior & exterior house paints, non-yellowing medium viscosity paints, gloss enamel, varnish and floor sealers (with light color).
	3600	8	5	Very high viscosity, good adhesion & hardness, light color, high gloss and gloss retention for interior & exterior house paints, gloss enamel, high viscosity paints, varnish & floor sealers
	4000	12	5	Excellent yellowing resistance in the dark and light color, good brush-ability and leveling properties, light color with good color retention, high gloss & gloss retention for interior non-yellowing paints, exterior high gloss paints, very special for white enamels.
	9700	8	5	
	9900	10	5	Good brush-ability and leveling properties, excellent yellowing resistance, good weathering resistance, good gloss retention for decorative enamels and marine paints and super structure.

Solvoya® M

Liquid medium oil alkyd resins

Product Specifications

Grade	Supply Form		Composition				
	Solids ±1%	Solvent type	Oil type	Oil %	PA%	Type of polyol	Approx Viscosity (Gardner)
AROMATIC SOLVENT FREE - MEDIUM OIL ALKYDS							
M5046-ECO	60	Zero aromatic solvent	Soya oil F.A & Soya bean oil	50	33	Gly./Pentaerythritol	Z3-Z4 at 55% & Z6 at 60%
CHAIN STOPPED - MEDIUM OIL ALKYDS							
M52300-W	75	White spirit	Linoleic rich fatty acid	48	20	Mixed polyols	Z7-Z8 at 75%
M5236-W	55	White spirit	Soya oil F.A & Soya bean oil	48	27	Pentaerythritol	Z2 at 55%
M4730-MS[1]	55	White spirit / xylene	Soya oil F.A & Soya bean oil	53	26	Mixed polyols	Z1 at 55%
M5512-X	60	Xylene	Soya oil F.A & Soya bean oil	45	36	Pentaerythritol	V-X at 50%
STANDARD MEDIUM OIL ALKYDS							
M4718-W	55	White spirit	Soya oil F.A & Soya bean oil	53	35	Glycerin	Y at 55%
M5010-W	50	White spirit	Soya oil F.A & Soya bean oil	50	37	Gly./Pentaerythritol	V-W at 40% & Z6 at 50%
M5046-W[2]	60	White spirit	Soya oil F.A & Soya bean oil	50	33	Gly./Pentaerythritol	Z3-Z4 at 55% & Z6 at 60%
M50148-W	55	White spirit	Soya oil F.A & Soya bean oil	50	34	Pentaerythritol	Z6 at 55% & X-Y at 45%
M52100-W	60	White spirit	Soya oil F.A & Soya bean oil	48	35	Mixed polyols	Z5-Z6 at 50%
M5090-W	55	White spirit	Soya oil F.A & Soya bean oil	50	31	pentaerythritol	Z5-Z6 at 55%
M55148-W	45	White spirit	Soya oil F.A & Soya bean oil	45	38	Gly./Pentaerythritol	Z6 at 45%
M5250-MS	60	White spirit / xylene	Soya oil F.A & Soya bean oil	48	32	Gly./Pentaerythritol	Z3-Z4 at 60%
M5213-X	70	Xylene	Soya oil F.A & Soya bean oil	48	34	Glycerin	X-Y at 70%

1- Available at HV version viscosity Z4 at 55% 2- Available in HV version viscosity of Z5-Z6 at 55%

Specifications				Characteristics and Main Applications
	Approx. BF. Viscosity	Max. Acid Value	Max. Color (Gardner)	
	4600	10	5	Good wetting properties, leveling properties, brush-ability, yellowing resistance and hardness, indicated for enamel base coats, non-yellowing air dry enamels for both decorative and industrial purposes, metal primers with fast dry properties and economic stoving enamels that cured at 140 - 160 °c.
	30000	12	5	Very fast drying time, good hardness & flexibility, good recoat-ability suitable for automotive refinish paints, machinery paints, drum paints and most of air dry applications.
	3600	12	5	Very fast drying time, good color and gloss retention, good yellowing and weathering resistance, very useful for high glossy industrial paints and decorative paints.
	3000	10	5	Very good mechanical performance, good recoat-ability properties, for automotive, industrial, wood and decorative applications.
	1200	10	5	Extremely fast drying, very good yellowing resistance and good gloss with excellent hardness and color retention. Indicated for automotive refinish, Industrial and drum coatings.
	1800	10	5	Good drying time, excellent toughness, abrasion resistance, water resistance, suitable for base enamels, do it yourself paints, steel paints, primers and stoving enamels
	1000	10	5	Good wetting properties, brush-ability, leveling, flexibility and gloss retention for non-yellowing coatings, economic industrial enamels, quick dry primers for both car refinish radiator and high gloss applications.
	4600	10	5	
	14800	8	5	High viscosity resin, very good yellowing resistance, brush-ability & leveling, very good flexibility & good gloss retention recommended for low cost industrial & architectural paints,non-yellowing air drying enamels, quick air drying metal primer & finishes and economical stoving enamel (temp 140 - 160 °C).
	10000	10	5	
	9000	10	5	Excellent gloss, weathering stability especially yellowing resistance, gloss and color retention, highly recommended for roller coating enamels and high quality decorative paints.
	14800	8	5	Very good yellowing resistance, brush-ability & leveling, very good flexibility & good gloss retention recommended. for low cost industrial & architectural paints, non-yellowing air drying enamels, quick air drying metal primer & finishes and economical stoving enamel (temp 140 - 160 °C).
	5000	12	5	Good gloss and gloss retention, yellowing resistance, fast drying time. For automotive refinishes, high quality industrial enamels and machinery coatings.
	1300	10	5	Excellent durability, drying process, toughness & abrasion resistance and water resistance, suitable for enamel undercoat, do it yourself paints with good gloss, structural steel paints, quick air drying metal primers and stoving primers.

Solvoya® D

Liquid air dry short oil alkyd resins

Product Specifications

Grade	Supply Form		Composition				
	Solids ±1%	Solvent type	Oil type	Oil %	PA%	Type of polyol	Approx Viscosity (Gardner)
CHAIN STOPPED AIR DRY - SHORT OIL ALKYDS							
D6518-X	60	Xylene	Soya oil F.A & Soya bean oil	35	30	Pentaerythritol	Y-Z at 50%
D6546-X[1]	60	Xylene	Soya oil F.A & Soya bean oil	35	30	Pentaerythritol	Z3-Z4 at 60%
D7550-X	60	Xylene	Soya oil F.A & Soya bean oil	25	30	Mixed polyols	Z3-Z4 at 60%
D6098-MS	55	White spirit / Xylene	Non- yellowing sun flower fatty acids	40	27	Mixed polyols	Z5 at 55%
D6418-X	50	Xylene	Low rosin tall oil F.A.	36	26	Mixed polyols	Y-Z at 50%
D7027-X	55	Xylene	Vegetable fatty acids	30	30	Mixed polyols	Z-Z2 at 55%
D68145-X	55	Xylene	Linseed oil	32	36	Pentaerythritol	Z6 at 55%
STANDARD AIR DRY - SHORT OIL ALKYDS							
D6123-X	60	Xylene	Dehydrated castor oil	39	40	Pentaerythritol	Z at 60%
D5936-X[2]	60	Xylene	Soya oil F.A & Soya bean oil	41	40	Glycerin	Z2 at 60%
D6570-X	70	Xylene	Soya oil F.A & Soya bean oil	35	30	Mixed polyols	Z-Z2 at 60%
D5970-X	70	Xylene	Soya oil F.A & Soya bean oil	41	40	Mixed polyols	Z4-Z6 at 60%
D6446-X	60	Xylene	Soya oil F.A & Soya bean oil	36	42	Mixed polyols	Z2-Z4 at 60%

1- Available in TFA version based on low rosin tall oil F.A 2- Available in HS version at 70% solids

Specifications					Characteristics and Main Applications
	Approx. BF. Viscosity	OH-Content (%)	Max. Acid Value	Max. Color (Gardner)	
	1800	3.0	12	6	Excellent salt spray resistance, very fast drying time, good corrosion resistance very good compatibility with chlorinated rubber for isolating varnishes and wire enamels, and it can be used to improve the drying time of NC and PU-systems.
	4600	3.0	10	6	
	5000	3.0	12	6	
	9800	-	10	6	Compatible with aliphatic hydrocarbon solvents, very fast dry, very high weathering stability and yellowing resistance for industrial, wood and automotive coatings.
	1800	5.2	12	6	Very good abrasion resistance, adhesion on metal substrates, gloss and color stability, corrosion resistance, yellowing resistance and extreme fast dry for all types of wood, metal automotive and road marking paints.
	2700	3.0	12	6	Excellent hardness, film leveling, sanding properties with fast solvent release properties for both 2K PU and NC-systems as matte varnishes and wood sealers
	14500	3.9	10	6	Excellent salt spray resistance, extremely fast dry & through hardening, excellent gloss retention, very good adhesion and corrosion resistance for Primers, air drying & stoving finishes, excellent isolating varnish & wire enamels
	2300	-	15	5	Good yellowing resistance, adhesion to metal substrate, color retention and gloss level used for enamels and low-bake enamels with non-yellowing properties for car refinishes.
	3600	2.9	12	5	Good weathering durability, color retention, adhesion properties, excellent drying properties with tough film and abrasion resistance used for undercoat enamels, stoving enamels (100 °C - 140 °C) and other types of metal and steel paints.
	7000	2.9	12	6	
	7000	3.2	15	6	
	4600	4.3	10	3	Good hardness and adhesion, Excellent gloss and color retention, Very good yellowing resistance. NC lacquer, Baking enamel, Gloss and semi-gloss PU for wood finishes Industrial paints.

Solvoya® N

Air non-dry short oil alkyd resins

Product Specifications

Grade	Supply Form		Composition				
	Solids ±2%	Solvent type	Oil type	Oil %	PA%	Type of polyol	Approx Viscosity (Gardner)
N6532-X[1]	70	Xylene	Coconut oil	35	44	Mixed polyols	Z2-Z4 at 60%
N6597-X[2]	70	Xylene	Coconut oil	35	44	Mixed polyols	Z5 at 60%
N6836-X[3]	70	Xylene	Coconut fatty acids	32	46	Mixed polyols	Z2-Z3 at 60%
N6880-X[4]	70	Xylene	Coconut fatty acids	32	46	Mixed polyols	Z3-Z4 at 60%
N6897-X	70	Xylene	Coconut fatty acids	32	46	Mixed polyols	Z5-Z6 at 60% & Z10 at 70%
N7206-X	70	Xylene	Synthetic fatty acid	28	42	Mixed polyols	S-T at 60%
N7209-X	70	Xylene	Synthetic fatty acid	28	40	Mixed polyols	V-W at 60%
N5946-X	60	Xylene	Castor/ Linoleic rich fatty acid	41	38	Mixed polyols	Z2-Z4 at 60%
N7027-X	55	Xylene	Vegetable fatty acids	30	32	Pentaerythritol	Z-Z2 at 50%

1- Available in in LS version at 60% 2- Available in LS version at 60% 3- Available in LS version at 60% 4- Available in LS version at 60%

Specifications				Characteristics and Main Applications
Approx. BF. Viscosity	OH-Content (%)	Max. Acid Value	Max. Color (Gardner)	
3200	3.2	8	12	High hardness and flexibility and good outdoor durability and excellent yellowing and water resistance for NC-systems, stoving enamels for furniture and automotive refinishes, tinplate varnishes and for furniture lacquers.
9700	4.0	8	3	Excellent adhesion & good gloss, Good mechanical performance, High yellowing resistance, Good hardness & adhesion. Suitable for High quality NC lacquers for furniture & motor cars, Non-yellowing baking enamels.
3600	4.0	8	3	High hardness and flexibility and good outdoor durability and excellent yellowing and water resistance for NC-systems, stoving enamels for furniture and automotive refinishes, tinplate varnishes and for 2K-PU furniture lacquers.
8000	2.5	8	3	
9700	3.2	8	6	
600	3.0	10	3	Very light color and very good compatibility with polyol acrylics for production of stoving, 2K-PU clear and pigmented enamels and acid curing paints.
900	4.8	10	3	Very good yellowing resistance and wetting properties, good color retention for NC-systems, cellulose nitrate finishes and high gloss, hardness, flexibility for PU-systems with good compatibility with polyol acrylics for automotive refinish systems, could be useful for oem enamels at 120 °C – 160 °C and acid curing finishes.
4600	4.0	15	6	Excellent elasticity, good solvent release and drying time, high wetting properties suitable for clear and pigmented PU-systems.
2700	2.8	10	5	Good hardness, film leveling, sanding properties, fast solvent release, suitable for 2K and NC systems for matte topcoats and sealers.

Solvoya® UA

Liquid urethanated alkyd resins

Product Specifications

Grade	Supply Form		Composition				
	Solids ±1%	Solvent type	Oil type	Oil %	PA%	Type of polyol	Type of Isocyanate
AROMATIC SOLVENT FREE - URETHANATED ALKYDS							
UA3705-ECO	60	Zero aromatic solvent	Soya oil F.A & Soya bean oil	63	28	Pentaerythritol	Aromatic
STANDARD URETHANATED ALKYDS							
UA3503-W	60	White spirit	Soya oil F.A & Soya bean oil	65	28	Pentaerythritol	Aromatic
UA3705-W	55	White spirit	Soya oil F.A & Soya bean oil	63	28	Pentaerythritol	Aromatic
UA3720-W	55	White spirit	Soya oil F.A & Soya bean oil	63	28	Pentaerythritol	Aromatic
UA3930-W	55	White spirit	Soya oil F.A & Soya bean oil	61	28	Pentaerythritol	Aromatic
UA4046-W	60	White spirit	Soya oil F.A & Soya bean oil	60	0	Pentaerythritol	Aromatic
UA4027-W	60	White spirit	Non-yellowing sun flower fatty acids	60	28	Pentaerythritol	Aliphatic
UA4046-W	60	White spirit	Low rosin tall oil f. A.	60	28	Pentaerythritol	Aromatic
UA4236-W	55	White spirit	Low rosin tall oil f. A.	58	28	Pentaerythritol	Aromatic

Solvoya® UO

Liquid urethanated oil resins

Product Specifications

Grade	Supply Form		Composition				
	Solids ±1%	Solvent type	Oil type	Oil %	PA%	Type of polyol	Type of Isocyanate
HIGH SOLIDS - URETHANATED OIL RESIN							
UO3520-W	80	White spirit	Soya oil F.A & Soya bean oil	65	28	Pentaerythritol	Aromatic
STANDARD - URETHANATED OIL RESINS							
UO3820-W	52	White spirit	Linseed oil	62	28	Mixed polyols	Aromatic
UO3730-W[1]	60	White spirit	Soya oil F.A & Soya bean oil	63	28	Pentaerythritol	Aromatic
UO3442-W	60	White spirit	Non-yellowing sun flower fatty acids	66	28	Pentaerythritol	Aromatic

1- Available in HV version at viscosity Z6-Z7 at 60%

Specifications					Characteristics and Main Applications
	Approx Viscosity (Gardner)	Approx. BF. Viscosity	Max. Acid Value	Max. Color (Gardner)	
	S-T at 50%	500	4	2	Fast drying, high abrasion resistance, light color with good yellowing resistance, very good compatibility with the majority medium & long oil-air drying alkyds suitable for wood varnishes, pigmented decorative enamels for interior use only, furniture finishes, parquet sealers and yacht varnishes.
	L at 50%	300	4	2	Economical urethanated alkyd grade with good drying, good gloss, low viscosity range and very good abrasion resistance for general and furniturewood coatings.
	S-T at 50% & Z3 at 55%	500	4	2	
	Y-Z at 55%	2000	4	2	Fast drying time, good abrasion resistance, light color and yellowing resistance and excellent compatibility with all medium and long oil alkyds.
	Z-Z2 at 55%	3000	4	5	
	Z3 at 60%	4600	4	2	
	Z1-Z2 at 60%	2700	4	2	Very light color, excellent weathering stability, yellowing resistance.
	Z3 at 60%	4600	4	2	Fast drying, High abrasion resistance, Light color, suitable for wood coatings and water resistant paints.
	Z2 at 55%	3600	4	2	Excellent yellowing resistance, weathering stability and fast drying time for all types of wood coatings and yacht coatings.

Specifications					Characteristics and Main Applications
	Approx Viscosity (Gardner)	Approx. BF. Viscosity	Max. Acid Value	Max. Color (Gardner)	
	Y-Z at 80%	2000	4	2	Very high solid content with low viscosity, excellent gloss and low VOC.
	Y-Z at 52%	2000	4	2	Good gloss retention, adhesion, water resistance, abrasion resistance and fast drying time.
	Z2-Z3 at 60%	3000	4	2	High viscosity with light color, good adhesion and through hardening, good chemical and water resistance, good gloss, abrasion resistance and fast drying time for all type of industrial paints.
	Z2-Z3 at 60%	4200	4	2	

Solvoya® CP

Liquid copolymerized & modified resins

Product Specifications

Grade	Supply Form		Composition				
	Solids ±2%	Solvent type	Oil type	Oil %	PA%	Modification	Monomer content %
STYRENATED COPOLYMERIZED ALKYDS							
CP3504-WSM	60	White spirit	Linseed stand oil	65	18	Styrene monomer	40
CP7025-XSM	60	Xylene	Soya oil F.A & Soya bean oil	30	20	Styrene monomer	40
CP7046-XSM[1]	55	Xylene	Soya oil F.A & Soya bean oil	30	20	Styrene monomer	40
CP6202-XSM	50	Xylene	Vegetable fatty acids	38	12	Styrene monomer	40
ACRYLIC COPOLYMERIZED ALKYDS							
CP7109-XAC	60	Xylene	Soya oil F.A & Soya bean oil	29	18	Acrylics	40
VINYL-TOLUENE COPOLYMERIZED ALKYDS							
CP6909-WVT	70	White spirit	Low rosin tall oil F.A	31	18	Vinyl toluene	41

1- Available in HV version at visc. of Z6-Z8 at 55%, 35000cp

Grade	Supply Form		Composition				
	Solids ±2%	Solvent type	Oil type	Oil %	PA%	Modification	Type of polyol
ROSIN AND PHENOLIC MODIFIED RESINS							
CP5607-WR	50	White spirit	Linseed oil	44	33	Rosin	Pentaerythritol
CP6680-XR	60	Xylene	Linseed oil/ Tung oil	34	37	Phenolic/ Rosin	Pentaerythritol

	Specifications				Characteristics and Main Applications
Type of polyol	Approx Viscosity (Gardner)	Approx. BF. Viscosity	Max. Color (Gardner)	Max. Color (Gardner)	
Mixed polyols	N at 60%	400	5	10	Excellent brush-ability & good leafing aluminum effect (Hazy) for aluminum & bronze paints for industrial applications.
Mixed polyols	Y-Z1 at 60%	2500	10	5	Very short drying time, low viscosity, good filling properties for hammer finishes, industrial enamels, fast drying applications.
Glycerin	Z2-Z3 at 55%	4600	10	5	
Glycerin	F-L at 50%	200	12	5	Very short drying time, Good filling properties, good recoat ability, Hammer finishes, Industrial spraying enamels, Fast drying primers & varnishes.
Glycerin	V at 60%	900	5	10	Very short drying time, very good hardness, gloss, wettability and adhesion on tinplates/ aluminum for can coating and collapsible tube lacquers, roller and toy enamels.
Mixed polyols	Z6 at 70% & V at 50%	900	12	5	Very short drying time, Very good hardness & gloss, Yellowing resistance Hammer finishes, Industrial top coat paints, Anti corrosive primers.

	Specifications				Characteristics and Main Applications
	Approx Viscosity (Gardner)	Approx. BF. Viscosity	Max. Acid Value	Max. Color (Gardner)	
	T-V at 50%	700	15	16	Excellent hardness, drying time, gloss and gloss retention for high hardness furniture and industrial coating systems.
	Z4-Z5 at 60%	8000	20	9	Fast drying time, good adhesion, corrosion resistance and water resistance, for air drying primers and fillers, one coat system for metal.

DOUBLE BOILED OIL

Solvoya® DB

Double boiled oil

Product Specifications

Grade	Supply Form		Composition		Specifications	
	Solids ±1%	Solvent type	Oil type	Oil %	Approx Viscosity (Gardner)	Approx. BF. Viscosity
DB0360-NS	100	No solvent	Linseed oil	100	Z2-Z3 at 100%	3600

THIXOTROPIC ALKYD RESINS

Solvoya® TH

Thixotropic alkyd resins

Product Specifications

Grade	Supply Form		Composition			Specifications	
	Solids ±1%	Solvent type	Oil type	Oil %	PA%	Viscosity (Gardner)	Max. Acid Value
TH4603-W	50	White spirit	Soya oil F.A & soya bean oil	54	18	pentaerythritol	12
TH4805-W	55	White spirit	Soya oil F.A & soya bean oil	52	18	pentaerythritol	12

	Max. Acid Value	Max. Color (Gardner)	Characteristics and Main Applications
	15	13	Good drying time, gloss retention and pigment wetting properties with excellent brush-ability and level-ing, suitable for adjusting the required drying time especially for putties.

	Max. Color (Gardner)	Gel Strength	Characteristics and Main Applications
	8	200-400	Very high viscosity with thixotropic effect with very low sagging, excellent brushing and leveling effect.
	8	400-600	

Solvimor ®

Polyester, acrylic, amino, epoxy and flexible packaging resins

Solvimor ® represents UPR, saturated polyester resins, acrylic resins , flexible packaging resins, amino and epoxy resins.

Egyptian British Co. offers these grades in an optimum quality with a high consistent level of quality that covers lots of applications like fiber glass reinforced most of automotive refinishing coating systems, wood, metal, can aerosol paint and flexible packaging applications.

Wood sealer and metal fillers

Egyptian British Co. is providing a wide range of UPR products that shows excellent performance on the level of hardness, flexibility, sandability with a non- greening effect.

To ensure a very easy and fast application during day and night.

Solvent based and solvent free flexible packaging

For both medium to high performance and general purpose adhesive, suitable for the lamination of aluminum containing structures and films such as PE, OPP, CPP, PA, PET with and without sandwich printing.

Automotive refinish systems

We offer diversified types of resins suitable for automotive refinishing systems, such as metal putty, primer, surfacer, metallic base coat, top coat and solid color systems with excellent parameters that provides an excellent compatibility with CAB and other alkyd resins .

With Egyptian British Co. well-established manufacturing systems, you become able to design the desired car refinish system with wide range of coating specifications that give you the system flexible room to move between performance levels and economic levels.

Bath tubs back-up UPE

We offer the ideal formula for bath tubs back-up reinforcing processes with excellent adhesion power, shrinkage resistance and excellent filler wettability without sagging hazards.

GRP/FRP pipes industry

With a 100% Iso-Phthalic base UPE and with very special formula, it is available for GRP/FRP pipe industry with very high acid resistance.

Can & coil coatings

With both resin systems, it is available for very good flexibility hardness, adhesion power and sterilization resistance.

Aerosol paint

Egyptian British Co. is offering the ideal product range for excellent dispersion ability, wettability and new low acid values for multipurposes aerosol paints, all plus LPG excellent compatibility

Solvimor® U

Unsaturated polyester resins

Product Specifications

Grade	Supply Form					
	Solids ±2%	Solvent type	Gel time (min)	Cure Time (min)	Peak Exotherm (°C)	Approx Viscosity (Gardner)
ISOPHTHALIC UNSATURATED POLYESTER RESINS						
U-ISO2500	60	Styrene monomer	10-12	18-22	180±5	O-T
U-ISO2000	60	Styrene monomer	10-12	18-22	190±20	L-P
AMINE ACCELERATED UNSATURATED POLYESTER RESINS						
U-MF0468	68	Styrene monomer	3-6	11-15	110±10	N-Q
U-MF0465	65	Styrene monomer	5-8	14-18	170±10	N-P
U-MF0362	62	Styrene monomer	4-8	14-18	120±10	L-Q
U-MS0770	70	Styrene monomer	5-7	12-16	170±10	U-V
U-MS2070	70	Styrene monomer	9-12	12-16	125±11	Y-Z
THIXOTROPIC UNSATURATED POLYESTER RESINS						
U-BT0258	58	Styrene monomer	10-20	25-40	190±10	-
U-BT0358	58	Styrene monomer	15-20	25-35	190±10	-
STANDARD UNSATURATED POLYESTER RESINS						
U-S2575	75	Styrene monomer	3-6	8-12	150±10	Y-Z
U-S2375	75	Styrene monomer	3-6	8-12	160±10	Y-Z
U-S1675	75	Styrene monomer	8-12	15-22	160±10	X-Y
U-GP2000	62	Styrene monomer	10-20	20-40	160±20	G-K
U-GP0461	61	Styrene monomer	8-14	16-25	125±10	N-Q
U-GP0265	65	Styrene monomer	5-10	20-10	190±20	G-J
U-GP0365	65	Styrene monomer	8-12	18-25	150±20	L-M
U-LR0465	65	Styrene monomer	10-15	20-25	125±10	J-L
U-BU2070	70	Styrene monomer	5-12	10-20	160±20	Y-Z1
U-BU1870	72	Styrene monomer	5-10	15-25	160±20	Y-Z

Specifications				Characteristics and Main Applications
	Approx. BF. Viscosity	Max. Acid Value	Max. Color	
	400 - 600	15	5 [G]	UPR based on isophthalic in styrene monomer, suitable for glass fiber laminates for general purpose applications such as pipes industry based on FRP. Its good chemical resistance makes the resin suitable for manufacture of tanks and containers for fuels.
	300 - 400	15	5 [G]	
	300 - 500	18	8 [G]	Medium flexibility, medium reactivity, excellent dry sandability & do not rapidly clog sanding paper. It is ideal as sole highly filled binder for car body filler, accepts higher filler loads & show excellent storage stability of derived pastes.
	360 - 380	18	8 [G]	
	300-400	25	8 [G]	Excellent sandability, good curing properties, Wax free, amine accelerated unsaturated polyester, Standard body putty (filler) compounds, light weight body putty (filler) compounds, putties based on it achieve excellent dry sand ability & do not rapidly clog sanding paper.
	600 - 800	40	8 [G]	High rigidity, high reactivity and medium viscosity suitable as marble stopper, adhesive and binder for highly filled knifing fillers.
	1900 - 2500	30	8 [G]	
	120-180	40	Hazy-pink	General purposes UPR recommended for high filled applications like bath tubs, telephone booths, kiosks, non-structural cladding etc. Glass fiber laminates for general purpose applications, gel-coat for sanitary ware, spray applications.
	250-350	20	Hazy-pink	
	2500	20	3 [G]	Rigid films, good sanding properties, rapid curing, fast dry film and low odor emissions and low greening effect. It is recommended for wood finish varnish, sanding wood sealers where rapid and easy sanding characteristics are required.
	2300	25	3 [G]	
	1600	25	5 [G]	Excellent wettability properties for rigid films, good curing properties, wax free, Good sanding properties and Low odor emissions and low greening effect. recommended for good wood finish varnish and wood sanding sealers.
	300-400	20	5 [G]	Ortho-phthalic based UPE with excellent mechanical properties, recommended for the filement winding and GRP pipes hand lay up process.
	350-450	20	3 [G]	High chemical resistance, rigid films, good curing properties, wax free, Non accelerated UPR for general purpose applications where economy in use is a major consideration and both hydrolytic stability and structural performance are not critical. It may be used in all general FRP applications.
	150-250	30	Hazy	
	300-400	20	5 [G]	high filler capacity, high reactivity, rigid films accompanied with good hardness, shrinkage rate, recommended for casting applications, concrete & artificial marble industry.
	350-450	40	1 [G]	Very high clarity with a very low refractive index, ideal for roofing sheets.
	1900 - 2600	40	150 [H]	Excellent pigment wettability, good transparency UPR for manufacture of buttons by centrifugation and casting rods procedures.
	1700 - 2000	40	150 [H]	

Solvimor® SP

Liquid saturated polyester resins

Product Specifications

Grade	Supply Form			
	Solids ±2%	Solvent type	Approx Viscosity (Gardner)	Approx. BF. Viscosity
SP8060-N	60	Solvent naphtha 150ND	Z4-Z5 at 60%	8000
SP3075-X	75	Xylene	Z1-Z3 at 75%	3000
SP0660-MS	60	Solvesso100/ Methoxy propanol/ xylene	S –U at 60%	600
SP0550-MS	50	Solvesso100/ Methoxy propanol/ xylene	S –U at 50%	500
SP3063-MS	63	Solvent naphtha150ND/ butyl glycol	Z1-Z2 at 63%	3000
SP3365-MS	65	Solvent naphtha 150ND/butyl glycol 4/1	Z1-Z2 at 65%	3300
SP2550-MS	50	Solvent naphtha 150ND/butyl glycol; 4/1	Y-Z at 50%	2500
SP4050-MS	55	Diactone alcohol/ Solvent naphtha 150ND , 7/3	Z2-Z3 at 55%	4000
SP4255-N	55	Solvent naphtha 150ND	Z2-Z3 at 55%	4200
SP5550-MS	50	Solvent naphtha 150ND/ Isophorone 3/1	Z3-Z4 at 50%	5500
SP3360-MS	60	Solvent naphtha 150ND/ butyl glycol 3/1	Z1-Z2 at 60%	3300
SP6560-MS	60	Solvent naphtha 150ND/ Solvent Naphtha 200ND;1/1	Z4 at 60%	6500
SP5050-MS	50	Solvent naphtha 150ND/ Solvent naphtha 200ND/ Dowanol PM;32/10/8	Z3-Z4 at 50%	5000

Specifications				Characteristics and Main Applications
OH-Content (%)	Max. Acid Value	Max. Color (Gardner)	Appearance	
1.0	10	2	Clear	Very Good Flexibility, deep drawn, cold crush tube coatings and white base coats.
3.2	10	5	Clear	Suitable for formulation of air-drying two-pack as a co-reactant for polyisocyanates coatings and clear & pigmented finishes for wood with good mechanical properties & gloss and excellent flow and leveling properties.
2.5	10	4	Clear	With excellent CAB and MF compatibility for automotive base coats and automotive solid color systems.
2.5	-	4	Clear	Automotive refinish base coat systems based on high solids and industrial stoving system characterized by excellent sagging resistance and good flow and drying properties.
3.0	10	3	Clear	Recommended for top coats for interior, exterior and general industrial stoving enamels for coil and can coatings with good outdoor durability, high flexibility and good adhesion properties.
2.5	8	3	Clear	
1.2	5	3	Clear	Suitable resin for production of white base coat and over-print varnishes for can and coil coatings with good hardness, good flexibility, good sterilization resistance and excellent reactivity & outdoor durability.
1.2	5	3	Clear	
0.8	5	3	Clear	Used for coil and domestic appliances enamels, also for general purpose, twist off closures can coatings.
0.3	10	5	Clear	Recommended for production of enamels for Aerosol and collapsible tubes and can coatings with excellent reactivity, adhesion power to aluminum, flexibility properties, and excellent sterilization resistance.
1.5	8	3	Clear	Offering excellent sterilization resistance and leveling for manufacturing of can coating white base coats.
0.7	5	5	Clear	Good flexibility and adhesion to HDG (hot dipped galvanized steel) and aluminum, ideal for manufacturing of can coating primers and top coats.
0.3	10	5	Clear	Good reactivity and adhesion to aluminum, sterilization resistance and good flexibility for can coating, especially for Aerosol cans and collapsible tube coatings.

Solvimor® AH

Liquid Polyol acrylic resins

Product Specifications

Grade	Supply Form			
	OH-Content (%)	Solids ±2%	Solvent type	Approx Viscosity (Gardner)
LOW SOLIDS - ACRYLIC POLYOL				
H18060-X	1.0	60	Xylene	Z6 - Z7 at 60%
H2055-X	1.8	55	Xylene	X - Z at 55%
H4560-MS	1.8	60	Xylene/ MPA	Z2 - Z4 at 60%
H4550-BA[1]	2.0	50	Butyl acetate	Z2 - Z4 at 50%
H4550-MS	2.0	50	Xylene/ Butyl acetate	Z2 - Z4 at 50%
H2860-X	2.0	60	Xylene	X - Z at 60%
H3560-X	2.7	60	Xylene	Z1 - Z2 at 60%
H14060-X	2.8	60	Xylene	Z5 – Z6 at 60%
H2065-BA	3.0	65	Butyl acetate	X - Z at 65%
H1860-BA	3.0	60	Butyl acetate	X – Z at 60%
H1550-X	4.0	50	Xylene	W-Y at 50%
H3565-BA	4.2	65	Butyl acetate	Z - Z3 at 65%
H4065-X	4.2	65	Xylene	Z – Z3 at 65%
H4060-MS	4.2	60	Xylene/ MPA	Z1 - Z3 at 60%
H2760-MS	4.5	60	Mixed solvents	Z - Z1 at 60%
H3060-MS	4.5	60	Xylene/ Butyl acetate/ Naphtha 100	Z - Z2 at 60%
MEDIUM SOLIDS - ACRYLIC POLYOL				
H3070-BA	3.0	70	Butyl acetate	Z-Z2 at 70%
H10070-MS	3.0	70	Xylene/ Butyl acetate	Z4-Z6 at 70%
H4070-BA	4.2	70	Butyl acetate	Z1 – Z3 at 70%
H10070-BA	4.2	70	Butyl acetate	Z4 – Z6 at 70%
H9570-BA	4.5	70	Butyl acetate	Z4 - Z6 at 70%
H4570-BA	4.5	70	Butyl acetate	Z2 – Z3 at 70%
H7070-BA	4.5	70	Butyl acetate	Z3-Z5 at 70%

1- Available in MS version based on xylene /butyle acetate and 1% OH

Specifications				Characteristics and Main Applications
	Approx. BF. Viscosity	Max. Acid Value	Max. Color (Hazen)	
	18000	5-10	50	Very fast drying time with short time for sanding, excellent adhesion and mechanical properties for automotive refinish primers, clear coat and general industrial coatings.
	2000	5-10	50	Early sandability, excellent adhesion, mechanical properties, recommended for cost effective 2K general purposes paints.
	4500	5-10	50	Good drying time, appearance, flexibility, adhesion and mechanical properties, recommended for 2K car refinish systems, machine and protective paints.
	4500	5-10	50	Excellent adhesion on plastic substrates, mechanical, weathering resistance, with excellent compatibility with CAB for 1K metallic base coat and 2K high quality coatings.
	4500	5-10	50	
	2000	5-10	50	Good mechanical and adhesion properties for 2K car refinish and machine systems.
	3500	5-10	50	Good gloss, adhesion and mechanical properties, recommended for pigmented and clear car refinish systems and general applications.
	14000	5 -10	50	High viscous resin with high gloss for 2K primers, pigmented and clear car refinish systems with excellent mechanical properties.
	2000	5-10	50	Suitable for automotive refinish clear coat and solid color systems and top coat for industrial purposes with good appearance, mechanical properties and weathering resistance.
	1800	5 -10	50	Excellent gloss, mechanical properties, out-door stability and chemical resistance for car refinsih systems including all applications (primers, pigmented and clear coats) and off-shores and cranes paints.
	1500	4-12	50	Excellent gloss, mechanical, exterior durability for premium quality low soilds 2K-car and pigmented top coats for automotive refinishs.
	3500	5-10	50	Excellent doi, exterior durability, mechanical and chemical resistance recommended for clear coats, solid color top-coat for automotive refinishes, agricultural, marine, protective and construction coatings.
	4000	5 -10	50	
	4000	6-10	50	
	2700	5 -10	50	High gloss ,excellent mechanical properties, outdoor stability and chemical resistance recommended for 2K-systems.
	3000	4-10	100	
	3000	5 -10	50	High gloss, good mechanical properties, exterior stability and appearance for solid color and clear coat systems for car refinish and industrial systems.
	10000	5-10	50	Excellent doi, mechanical properties, gloss weathering and chemical resistance for 2K-systems for all purposes applications.
	4000	5 -10	50	
	10000	5-10	50	Fast drying, high build and gloss, excellent mechanical properties and chemical resistance, practically no yellowing under UV-light, high solids content.
	9500	5 -10	50	Excellent gloss level, doi, grinding, mechanical properties, out-door durability for 2K-systems.
	4500	5 -10	100	
	7000	5 -10	200	

Solvimor® AP

Liquid thermoplastic acrylic resins

Product Specifications

Grade	Supply Form		Specifications		
	Solids ±2%	Solvent type	Viscosity (Gardner)	Approx. BF. Viscosity	Max. Acid Value
AROMATIC SOLVENT FREE - THERMOPLASTIC ACRYLIC RESINS					
P4550-ECO	50	Butyl acetate	Z2-Z4 at 50%	4500	1
STANDARD THERMOPLASTIC ACRYLIC RESINS					
P14055-T	55	Toluene	Z6 at 55%	14000	10
P15055-X	55	Xylene	Z6 at 55%	15000	10
P0240-W	60	White spirit	H-L at 40%	200	5
P4560-W	60	White spirit	Z2-Z4 at 60%	4500	5
P7560-T[1]	60	Toluene	Z4-Z5 at 60%	7500	10
P3560-X	60	Xylene	Z1-Z3 at 60%	3500	10
P1035-MS	35	Xylene/ Butyl acetate	V-X at 35%	1000	1
P2250-MS	50	Xylene/ Solvesso100	X-Z1at 50%	2200	10
P4655-X	55	Xylene	Z2 – Z4 at 55%	4600	10
P5045-MS	45	Ethyl acetate/ MIBK	Z3-Z4 at 45%	5000	5
P5050-MS	50	Xylene/ Solvesso100 (1/1)	Z2-Z4 at 50%	5000	5
P5060-T[2]	60	Toluene	Z3-Z5 at 60%	5000	12
P10050-T	50	Toluene	Z4-Z6 at 50%	10000	1
P10060-T	60	Toluene	Z5-Z6 at 60%	10000	10
P3560-X	50	Xylene	Z1-Z3 at 60%	3500	10
P7060-T[3]	60	Toluene	Z3-Z5 at 60%	7000	1
P3542-T	50	Toluene	Y-Z at 50%	3500	1
P1050-MS	40	Xylene/ Toluene	V-X at 50%	1000	4

1- Available in X version based on xylene.

2- Available in X version based on xylene.

3- Available in LV versions visc. Z1-Z3 at 60%

THERMOPLASTIC ACRYLIC RESINS

	Max. Color (Hazen)	Characteristics and Main Applications
	50	Aromatic solvent free with very short air drying time, excellent compatibility with LPG for aerosol paints.
	50	Fast drying time, excellent durability, good adhesion and gloss for stamp concretes and outdoor paints.
	50	Excellent adhesion on asphalt, concrete and stones with excellent abrasion, alkali, humidity resistance and fast drying time, suitable for stone varnishes and cement facing substrates or primers.
	50	Fast drying time, good and permanent flexibility, excellent insulating properties for low viscosity primers with very good penetration properties.
	50	Very good adhesion on asphalt, concrete and stones, very good abrasion resistance, alkali and humidity resistance, very good exterior and interior properties with excellent hardness properties. Recommended for road marking paints with very good adhesion on all materials used in the horizontal marking of streets, highways, etc., also offer good adhesion to the glass beads for the light reflectance paints and varnishes for facades, swimming pools, garages, floor marking, etc. With high recommendations for hot weather countries.
	50	
	50	Outstanding exterior durability and color retention with excellent compatibility with CAB and N.C. Fast drying clear-coat for automotive refinish systems.
	50	Excellent drying time with medium viscosity, durable and flexible clear and hard film. Recmmended for wet to wet applications for the manufacture of new concrete roof tiles with hard film and also masonry paints.
	50	Excellent drying time with medium viscosity, very good adhesion on plastic substrates, general purpose masonry, decorative applications.
	50	
	50	Excellent drying time with medium viscosity, adhesion on metal substrates and concrete, suitable for wet to wet application, pigmented and transparent paints for metal.
	50	Suitable for aluminum paint due to its low acid value with high compatibility with LPG and suitability for spray application accompanied by fast physical drying, very good exterior and interior properties, excellent hardness, good alkali and humidity resistance and compatible with LPG.
	50	Outstanding exterior durability and color retention, compatible with CAB and NC, fast drying clear-coat for the automotive industry.
	50	Very good adhesion on asphalt, concrete and stones, very good abrasion resistance, alkali and humidity resistance, very good exterior and interior properties with excellent hardness properties. recommended for road marking paints with very good adhesion on all materials used in the horizontal marking of streets, highways, etc., also offer good adhesion to the glass beads for the light reflectance paints and varnishes for facades, swimming pools, garages, floor marking, etc. With high recommendations for hot weather countries.
	50	
	200	Low solid content, high viscosity with perfect weathering durability and color stability, it is compatible with CAB for base coat and clear coat for 1K car refinishing.
	200	Excellent grindability, compatibility with different resin types like CAB for base coat 1K car refinishing.

Solvimor®AT

Liquid thermosetting acrylic resins

Product Specifications

Grade	Supply Form		Specifications		
	Solids ±2%	Solvent type	Viscosity(Gardner)	Approx. BF. Viscosity	Max. Acid Value
T2258-MS	58	Mixed solvents	Z1 - Z3 at 58%	2200	6 -17
T2058-MS	58	Mixed solvents	X - Z at 58%	2000	6 -17
T-H1050-MS	50	Xylene/ N-butanol (3/1)	V - X at 50%	1000	10 -18
T-A0850-MS	50	Xylene/ Butanol (3/1)	U-W at 50%	800	10 - 17
T-A1050-MS	50	Solvent naphtha150ND/ Butanol (1/1)	U - W at 50%	1000	13 - 18
T-A1850-MS	50	Solvent naphtha150ND/ Butanol (2/1)	X - Y at 50%	1800	7 - 12
T-A2060-MS	60	Solvent naphtha150ND/ Butanol (2/1)	Y - Z at 60%	2000	8 -13
T-A0450-MS	50	Solvent naphtha 150ND/ Butanol (1/1)	N-Q at 50%	400	13-18

	Max. Color (Hazen)	Characteristics and Main Applications
	50	Good sterilization resistance with excellent balance between flexibility and hardness makes it suitable for can coating and two piece can bte coat.
	50	Good sterilization resistance, flow, acceptance of UV-curable printing ink, deep drawing for two piece can bte coating, external lines, twist off lids, crown and screw caps.
	150	Thermosetting hydroxyl acrylic resin. Good weathering resistance, scratch resistance, flexibility and compatibility with CAB. Indicated for automotive metallic bte coat and clear transparent top coats and stoving enamels.
	250	Thermosetting acrylic acrylamide resins with excellent flexibility, detergent resistance, high build and adhesion for stoving enamels and domestic appliances.
	100	Thermosetting acrylic acrylamide resins. Combined with epoxy resin 10% (BADGE) epoxy equivalent 450-500 offering good balance between hardness and flexibility, good chemical resistance for can bte coats with good sterilization properties and over print varnishes (OPV) and high gloss on wet on wet appliances with good sterilization properties.
	100	
	150	
	100	

EPOXY RESINS

Solvimor® EP

Liquid epoxy resins

Product Specifications

Grade	Supply Form		Specifications		
	Solids ±2%	Solvent type	Viscosity (Gardner)	Approx. BF. Viscosity	OH-Content (%)
EP5025-MS	50	Solvent naphtha 150ND/ Butyl glycol (4/1)	Z-Z1 at 50%	2,500	4.0
EP0650-X	50	Xylene	U - V at 50%	600	4.0
EP3855-MS	55	Solvent naphtha 150ND/ Butyl glycol (3/2)	Z2 - Z3 at 55%	3,800	4.0

AMINO RESINS

Solvimor® AM

Liquid amino resins

Product Specifications

Grade	Supply Form		Specifications		
	Solids ±2%	Solvent type	Viscosity (Gardner)	Approx. BF. Viscosity	Max. Acid Value
AM0855-MS	55	Isobutanol / Xylene (10/1)	U-V at 55%	800	1.5
AM11070-B	70	Butanol	Z5 at 70%	11000	1
AM14085-B	85	Butanol	Z5-Z6 at 85%	14000	1.5
AM16077-MS	77	Solvent naphtha 150ND / N-butanol (2/1)	Z6 at 77%	16000	2
AM0570-B	70	Butanol	S at 70%	500	2
AM0663-MS	63	Xylene / Butanol (1/2)	T-U at 63%	600	3

	Max. Acid Value	Characteristics and Main Applications
	4	Excellent flexibility, adhesion, and hardness for opv and collapsible tubes enamels of can coating.
	4	Good chemical resistance, flexibility, adhesion, recommended for primers both air dry and stoving mechanisms for protective coatings, OPV and collapsible tubes enamels of can coating and primers for automotive refinishes.
	4	Good weathering and yellowing resistance, good hardness and flexibility for can coating non-yellowing OPV.

	Free Formaldehyde %	Max. Color (Hazen)	Appearance	Characteristics and Main Applications
	0.7	100	Clear	Good reactivity, compatibility and over-bake resistance for general purposes stoving enamels.
	0.8	100	Clear	Excellent weathering resistance, flow and reactivity for automotive top and clear coats and general stoving enamels.
	0.3	100	Clear	Good gloss and compatibility for can and coil coatings and automotive refinishes.
	0.5	100	Clear	Low-medium reactivity, excellent mechanical properties, sterilization resistance for can coatings.
	0.7	100	Clear	Good sterilization resistance, reactivity and mechanical properties for can and automotive coatings.
	0	100	Clear / Hazy	Good sterilization resistance, epoxy resins compatibility recommended for can coatings, acid curing and stoving enamels.

Solvimor® FP

Polyurethane flexible packaging adhesive resins

Product Specifications

Grade	Composition		Specifications			Mixing Ratio
	Type/chemical character	NCO%	Viscosity (at 25°C approx. cPs)	Curing	Appearance	
SOLVENT-BASE FLEXIBLE PACKAGING						
FP1020SB-A	NCO	2±0.5	750 ± 150	7 days for complete curing 1-2 days for laminates	Clear	100.00
FP1020SB-C	OH	-	3500 ± 500			20.00
SOLVENT-LESS FLEXIBLE PACKAGING						
FP1075SL-A	NCO	15±1.5	2500±1000	7 days for complete curing 1-2 days for laminates	Clear	100.00
FP1075SL-C	OH	-	500-1000			75.00
FP1060SL-A	NCO	15±1.5	3000±1000	7 days for complete curing 1-2 days for laminates	Clear	100.00
FP1060SL-C	OH	-	1500±800			60.00
FP1050SL-A	NCO	15±1.5	8000±1500	7 days for complete curing 1-2 days for laminates	Clear	100.00
FP1050SL-C	OH	-	450±50			50.00

POLYURETHANE FLEXIBLE PACKAGING ADHESIVE RESINS

Recommendations		Characteristics and Main Applications
Suitable Recommended Structures	Suitable Use Recommendations	
OPA /Alu /P E PET /Alu / PE (CPP) OPP /Alu / PE(CPP) OPA / PE OPA / CPP PET / PE PET / CPP	Coffee, Pasta (Wet & Dry), Snack food, Chips, Meat andCookies	A two component solvent based medium & high performance pu adhesive system, polyester based two-components polyurethane, pasteurizable with high thermal and chemical resistance. Higher initial bonds with high wettability. The adhesive is suitable for the lamination of aluminium containing structures and films such as PE, OPP, CPP, PA, PET with and without sandwich printing. Recommended for film/film , film/foil laminates and metalized structures. Laminates produced can be pasteurized and boiled, we suggest a previous lamination test for sterilizable structures.It shows excellent green tack and final bond values , fast curing and low curling effect. The system is suitable in case of high thermal and chemical resistances are required, the obtained structures resist to sterilization, boiling and pasteurization. Suggested for triplex in line laminations. Considering the fact that the final result depends not only on the adhesive but on other factors (such as pre-treatment of the plastic film, types of printing inks, quantity of slip agent, other additives etc) It's advisable to perform careful preliminary tests before proceeding.
OPP / CPP OPP / COEX OPP / PE PET / PE PET / CPP	Chips, Coffee, Meat and Snack foods	A solvent-free general purpose performance composed of two component polyurethane system recommended for the lamination of transparent, metalized films and foil for dry food packaging. Transparent laminates produced with this system are resistant to boiling process. Application temperature is between 40 – 50 °C. The adhesive has fast running speeds, good machine stability.The system show excellent wettability, good final bonds, resistance to boiling and pasteurization in transparent structures.
OPP / CPP OPP / COEX OPP / PE OPP / COEX MET PET / Film MET	Chips, Coffee, Meat and Snack foods	A solvent-free medium to high performance pu adhesive system recommended in lamination of printed films / aluminium or metalized films. Suitable for thermal processes like pasteurization and boiling. The system show excellent wettability, good final bond and sealing strength after final curing. Many transparent structures are resistant to boiling and pasteurization.
OPP / COEX MET PET / Film MET OPA / Alu / PE PET / Alu / PE (CPP) OPP / Alu / PE (CPP)	Coffee, Pasta (Wet & Dry), Meat	A high performance lower concentration of free isocyanate monomers, PAA safe, low risk of adhesive caused anti-sealing effect. Application temperature is between 50 – 65°C. Adhesive system, with a high wettability on a variety of film/film and metalized structure and very low free mdi monomer content. Can be pasteurizable and boilable, sterilizable with transparent structures, high chemical resistance. Laminates are particularly indicated for production of primary aromatic amine save laminates. Especially for aluminum foil laminates, resistant to pasteurization and boiling resistant. Suitable for transparent, metalized including PET/Alu. The system shows good final bond and sealing strength after final curing. In transparent structures the adhesive is suitable for thermal process such as boiling and pasteurization, the adhesive was especially developed for the lamination at high machine speed (>250m/min).

Solvidur®

Solvent base additives

Solvidur® represents Egyptian British Co. premium quality of most important additives to add an extra step towards the ideal paint formula that satisfies our clients. alkyd emulsifier for water reducible alkyd based paints, wax dispersion for aluminum orientation development and short wave defect reduction, alkyd driers and poly-isocyanate hardeners for wood and metal coatings.

Selective production of additives

We take the track of some solvent based paints additives on a very selective way, that enables us to leave a finger-print in the path of paints raw materials industries, especially the specialty chemicals field.

With this selective production strategy that Egyptian British Co. is following, we were keen to present our partners and clients very valuable well-established product range to serve all solvent based paints fields from decorative paints, wood coatings, metal, marine, car refinish coatings.

Wax-Dispersion

The wax-dispersion is the essential required additive due to its important role in the high reflection effect through the short wave defect reduction, improvement of effect pigments orientation and in-can sedimentation reduction that all plays the important role in improvement of D.O.I for car refinish systems.

Alkyd Emulsifier

Now with Egyptian British Co. , and with a very simple paint production processing, it becomes extremely simple to produce water reducible alkyd paint.

Water reducible paint is the ideal path to reduce cost through solvent amount reduction, all plus the eco-friendly behavior of the paint. No worries about any of the final paint characters, like whiteness, opacity, gloss etc…

We also provide the ideal alkyd types to be used for this type of paints.

Alkyd Driers

A full range of metal Octoate alkyd driers with a wide range of metal concentrations, are provided by Egyptian British Co. according to our strategy "completing the range", so now you can use its grades of cobalt, zirconium, calcium, lead and manganese Octoate as one of your main formula ingredient with excellent performance made
with excellent experience.

Poly-isocyanate hardeners

As an extra mile step, we offer both aromatic and aliphatic ranges.
With weather-stability and non-yellowing properties, very good compatibility with highly branched polyols for all purposes, wood, car and metal coatings.

ALKYD EMULSIFIER

Solvidur® AE

Alkyd emulsifier

Product Specifications

Grade	Supply Form		Specifications	
	Solids ±2%	Solvent Type	pH - at 23 °C	Density - at 23 °C Kg./L
AE0445-NS	45	-	7.5 - 9	1.25

WAX DISPERSION

Solvidur® WD

Wax dispersion

Product Specifications

Grade	Supply Form		Specifications	
	Solids ±2%	Solvent Type	Melting point °C[1]	Particle size (Hegman gauge 50µm)
WD0106-MS[2]	6.00	Xylene / Butylacetate / Butanol	105.00	<20

1- Based on wax content

2- WD106 - MS should be stirred well before use after which they are added before CAB addition (preferably via the Alu slurry) to the binder solution during continues stirring.

	Approx. BF. Viscosity	Characteristics and Main Applications
	200 - 600	It is an emulsifier additive that having the ability to produce a water reducible solvent based paints via its hydrophobic - hydrophilic terminals it is useful to reduce VOC and cost in solvent based paints with at least 15% water combination.

	Approx. BF. Viscosity	Color	Appearance	Characteristics and Main Applications
	10±5	White	Liquid	It is recommended for use in solvent based base coats and one coat metallic top Coats. It is essential due to its rule in improving the orientation of effect pigments(alu, mica, etc.), reduces the short wave defect (mottling, bernard cells), enhances the flip-flop effect, reduces the sedimentation tendency in the cans and improves the D.O.I. of clear coats.

Solvidur® AD

Alkyd driers

Product Specifications

Grade	Supply Form	Specifications		
	Metal content %	Appearance	Max. Color (Gardner)	Max. Viscosity (at 30°C in sec. by F/C No. 4)
ZIRCONIUM OCTOATE DRIERS				
AD-Zr24	24.00±0.20	Clear liquid	5	300
AD-Zr20	20.00±0.20	Clear liquid	5	100
AD-Zr18	18.00±0.20	Clear liquid	4	70
AD-Zr12	12.00±0.20	Clear liquid	4	30
AD-Zr10	10.00±0.20	Clear liquid	2	15
AD-Zr8	8.00±0.20	Clear liquid	2	15
AD-Zr6	6.00±0.10	Clear liquid	2	15
CALCIUM OCTOATE DRIERS				
AD-Ca10	10.00±0.20	Clear liquid	5	50
AD-Ca6	6.00±0.20	Clear liquid	4	40
AD-Ca5	5.00±0.20	Clear liquid	4	30
AD-Ca4	4.00±0.20	Clear liquid	4	20
COBALT OCTOATE DRIERS				
AD-Co12	12.00±0.20	Clear liquid	Violet	250
AD-Co10	10.00±0.20	Clear liquid	Violet	200
AD-Co8.4	8.40±0.20	Clear liquid	Violet	55
AD-Co8	8.00±0.20	Clear liquid	Violet	50
AD-Co6	6.00±0.20	Clear liquid	Violet	45
AD-Co5	5.00±0.20	Clear liquid	Violet	40
AD-Co4	4.00±0.10	Clear liquid	Violet	30
AD-Co1	1.00±0.10	Clear liquid	Violet	20
LEAD OCTOATE DRIERS				
AD-Pb36	36.00±0.20	Clear liquid	4	75
AD-Pb33	33.00±0.20	Clear liquid	4	60
AD-Pb32	32.00±0.20	Clear liquid	4	45
AD-Pb30	30.00±0.20	Clear liquid	4	40
AD-Pb24	24.00±0.20	Clear liquid	4	30
MANGANESE OCTOATE DRIERS				
AD-Mn10	10.00±0.20	Clear liquid	Reddish brown	500
AD-Mn6	6.00±0.20	Clear liquid	Reddish brown	100

	Specific gravity (at 30°C)	Characteristics and Main Applications
	1.25±0.03	
	1.13±0.03	
	1.10±0.03	Metallic salt of synthetic carboxilic acid of 1-24% Zr-metal in aliphatic hydrocarbon solvent, suitable for alkyd based systems as a drier.
	0.97±0.03	
	0.94±0.03	
	0.87±0.03	
	0.85±0.03	
	1.01±0.03	
	0.91±0.03	Metallic salt of branched-chain synthetic fatty acid of 1-10% Ca-metal in aliphatic hydrocarbon solvent, suitable for alkyd based systems as a drier.
	0.90±0.03	
	0.87±0.03	
	1.02±0.03	
	0.97±0.03	
	0.94±0.03	
	0.94±0.03	Metallic salt of synthetic carboxilic acid of 1-24% Co-metal in aliphatic hydrocarbon solvent, suitable for alkyd based systems as an active surface drier and as initiator for UPR in FRP field.
	0.89±0.03	
	0.87±0.03	
	0.84±0.03	
	0.79±0.03	
	1.40±0.03	
	1.32±0.03	
	1.28±0.03	Metallic salt of synthetic carboxilic acid of 1-36% Pb-metal in aliphatic hydrocarbon solvent, suitable for alkyd based systems as a drier or an additive in anti-corrosion fluids.
	1.22±0.03	
	1.11±0.03	
	1.01±0.03	Metallic salt of branched-chain synthetic fatty acid of 1-10% Mn-metal in aliphatic hydrocarbon solvent, suitable for alkyd based systems as a drier.
	0.90±0.03	

Solvidur® AL

Aliphatic polyisocyanate hardeners

Product Specifications

Grade	Supply Form		Specifications	
	Solids ±2%	Solvent Type	Approx. BF. Viscosity	Nco Content
HDI BIURET ALIPHATIC CROSSLINKER				
AL2200-NS	100	No solvent	10000	22
AL2300-NS	100	No solvent	2500	23
AL1650-MS	75	Methoxy propyl acetate/ Xylene	250	16.5
AL1650-MPA	75	Methoxy propyl acetate	250	16.5
AL1650-BA	75	Butyl acetate	160	16.5

Solvidur® AR

Aromatic polyisocyanate hardeners

Product Specifications

Grade	Supply Form		Specifications	
	Solids ±2%	Solvent Type	Approx. BF. Viscosity	Nco Content
TDI-BASED AROMATIC CROSSLINKER ADDUCT				
AR1330-EA	75	Ethyl acetate	1600	13.3
AR1190-MS	75	Methoxy propyl acetate/ Xylene	1600	11.9
AR1190-BA	75	Butyl acetate	600	11.9

	Equivalent Weight	Functionality	Characteristics and Main Applications
	190	3.8	Weather-stable and non-yellowing topcoats. Very good compatibility with highly branched polyols.
	185	3.5	Lower viscosity than Solvidur® AL 2200-NS, for weather-stable and non-yellowing high solids coatings, structural coatings and topcoats.
	255	3.8	Special supply forms of Solvidur® AL 2200-NS, for different applications. Other supply forms available.
	255	3.8	
	255	3.8	

	Equivalent Weight	Functionality	Characteristics and Main Applications
	315	2.7	Ultra-low monomer grade of Solvidur® AL 1650 - BA.
	350	2.7	Crosslinker for use in anti-corrosion coatings, industrial coatings, wood and furniture finishes, concrete coatings as well as solvent-borne adhesives.
	350	2.7	

Important methods and information

1. General important basic measurement principles and methods:

Type of measurement	Main principle	Method of measurement
Determination of solid content / non-volatile matter	Determining the residual non-volatile matter by calculating the percentage of weight before and after heating a known weigh of the resin	1. Bring a flat bottomed dish with 5-7 cm diameter and 1 cm height. 2. Put 1-2 gm of the resin into the previously empty weighted and noted dish (S1). 3. The total weight will be noted (S2), so the sample weight in the dish is S2-S1. 3. Sample then will be dried at 120°C for 1 hr. 4. Then, after cooling the dish at room temp., weight the residual sample with the dish (S3). 5. Solid content = (S3-S1)/(S2-S1) * 100
Determination of acid value for resin solution	The acid value of a resin is the number of milligrams of potassium hydroxide required to neutralize the free acids in 1g of the resin	1. 10g of resin is put into a flask and dissolved in a mixture of neutralized ethanol and toluene (1:1). 2. Titrate with PhPh. Solution against a solution of KOH into an alcohol of 0.2 normality. 3. Calculate (ml KOH solution × normality × equivalent weight of KOH) = S1. 4. Calculate the (weight of sample (solids) in grams × solid content %) = S2. 5. acid value = S1/S2
Determination of the viscosity of resin solution	viscosity of resin solution is determined by a comparison between the rate of air bubble arises in an inverted tube filled with the resins solution against the rate of arisen bubble in an inverted tube filled with a standard solution	1. A clear glass tube is filled with the sample resin until 8mm to the open end, and then closed with a stopper to 5mm from the open end of the tube. 2. Care should be taken that the sample is not containing any air bubbles or solid particles. 3. Then temperature of the sample tube and standard tubes should be adjusted to 20C using a water bath. 4. After that, all tubes are held together in a position that both liquid levels are the same. 5. Invert both tubes together on same time. 6. The standard tubes which are matching the sample tube are noted. 7. Finally, viscosity is determined by determining the rate of bubble rising in corresponding rates in the two most closely matching standard tubes.
Determination of the Compatibility of resin solution	two or more resins are considered to be compatible in case of they are mixed with each other and the final mixture is shown as a clear solution until the solvent evaporated	1. Dissolve the binder samples that are going to be tested in an appropriate solvent. 2. Mix solutions with each other in proportions of (90:10, 75:25, 50:50, 25:75, 10:90). 3. Mix the resultant mixture vigorously. 4. Pour the yield into a glass plate and evaporate the solvent. 5. in case it is still clear without cloudiness, turbidity or flocculation, it is considered to be compatible.

2. General important information about important resins and paints ingredients

2.1. How to choose the ideal solvent for your paint:

2.1.1. Important solvent properties

To choose the ideal solvent that can be used into your coating formulation, it is very important to get more deeper into some other important information, like distillation range, flash point, boiling point, evaporation rate, … etc.

Solvent Family	Solvent Sub-family	Solvent Type	Specific gravity at 16 °C (60 °F)	Distillation Range °F (°C)	Flash Point TCC* °F (°C)
Hydrocarbons	Aliphatic hydrocarbons	Hexane	0.675 (5.62)	152-157 (67-70)	0 (-18)
		VM & P naphtha	0.755 (6.28)	250-300 (121-149)	60 (16)
		Stoddard solvent	0.767 (6.39)	310-370 (154-188)	100 (38)
		Mineral spirits	0.771 (6.42)	310-400 (154-204)	100 (38)
		140 Solvent	0.784 (6.53)	360-415 (182-213)	140 (60)
	Aromatic hydrocarbons	Toluene	0.871 (7.62)	230-231 (110-111)	41 (5)
		Xylene	0.871 (7.26)	281-284 (139-140)	81 (27)
		Medium-Flash Aromatic naphtha1	0.874 (7.28)	310-350 (154-177)	110 (43)
		High-Flash Aromatic naptha2	20.887 (7.39)	360-410 (182-210)	142 (61)
	Terpenes	Turpentine	0.862 (7.17)	310-324 (154-162)	91 (33)
		Dipentene	0.850 (7.09)	340-360 (171-182)	125(51)
		Pine oil	0.922(7.68)	410-425(210-218)	185(85)

Solvent Family	Solvent sub-family	Solvent Type	Molecular Weight
Hydrocarbons	Chlorinated hydrocarbons	Methylene chloride	84.94
		Methyl chloroform	133.4
Oxygenated Solvents	Ketones	Acetone	58.08
		Methyl ethyl ketone	72.1
		Methyl isobutyl ketone	100.16
		Methyl isoamyl ketone	114.19
		Methyl n-propyl ketone	86.13
		Diacetone alcohol	116.16
		Cyclohexane	98.15
		Isophorone	138.2
	Alcohols	Methanol	32
		Ethanol anhydrous	46.07
		n-Propanol	60.1
		Isopropanol anhydrous	60.1
		Isobutanol	74.12
		n-Butanol	74.12
		secondary butanol	74.12
		Tertiary butanol	74.12
		Amyl acohol (mixed isomers)	88.15
		Cyclohexanol	100.16
	Glycol ethers	Ethylene glycol monomethyl ether	76.1
		Ethylene glycol monoethyl ether	90.1
		Ethylene glycol monobutyl ether	118.2
		Propylene glycol monomethyl ether	90.1
		Propylee glycol monopropyl ether	118
		Diethylene glycol monomethyl ether	120.2
		Diethyene glycol monoethyl ether	134.2
		Diethylene glycol monobutyl ether	162.2
		Dipropylene glycol monomethyl ether	148.2
	Esters	Ethyl acetate	88.11
		Isopropyl acetate	102.13
		n-Propyl acetate	102.13
		Isobutyl acetate	116.16
		n-Butyl acetate	116.16
		sec-Butyl acetate	116.16
		Amyl acetate	130.19
		Isobutyl-isobutyrate	114.2
		2-Ethylhexyl acetate	172
		Ethylene glycol monoethether acetate	132.2
		Propylene glycol monoetether acetate	132.2
		Butyl lactate	146.11
	Nitroparaffins	2-Nitropropane	89.09
		Tetrahydrofuran	72.1
		Dimethyl formamide	73.09
		n-Methyl 2 pyrrolidone	99.1

	Specific gravity g/cc (lbs/gal.) 25 °C (77 °F)	Boiling Point degrees °C (°F)	Flash Point TOC*/ TCC* degrees °C (°F)	Evaporation Rate (n-BuAc=1)	Vapor Pressure 20 degree °C mm Hg
	1.326(11.05)	103.6°F(39°C)	None	14.5	355
	1.32(11)	80°F(30°C)	None	3.5	100
	0.792 (6.59)	56 (132)	-9/-20 (15/-4)	9	186
	0.806 (6.71)	80 (174)	-5/-6(22/21)	4	70
	0.802 (6.68)	127 (260)	23/16 (73/60)	1.6	15
	0.814 (6.77)	145 (298)	46/36 (115/96)	0.5	6
	0.808 (6.73)	103 (217)	22/8 (72/46)	2.5	27.5
	0.941 (7.64)	168 (334)	62/52 (144/126)	0.2	1
	0.947 (7.90)	156 (313)	54/44 (130/111)	0.2	2
	0.923 (7.68)	215 (419)	96/82 (205/179)	0.03	0.25
	0.793 (6.50)	65 (149)	17/11 (62/52)	6	96
	0.790 (6.58)	78 (172)	16/13 (60/56)	2.6	43.9
	0.806 (6.70)	97 (207)	31/23 87/7 4	1.0	18
	0.786 (6.54)	82 (180)	16/12 (60/53)	2	32.8
	0.803 (6.68)	108 (226)	38/30 (100/86)	0.7	8.8
	0.811 (6.75)	118 (244)	43/37 (110/98)	0.5	4.3
	0.808 (6.73)	100 (212)	27/23 (80/74)	0.9	12.5
	0.786 (6.54)	83 (181)	16/11 (60/52)	1.1	44.2
	0.813 (6.77)	130-138 (266-280)	48/39 (118/102)	0.3	2.6
	0.948 (7.91)	161 (322)	68/63 (154/145)	0.1	0.8
	0.966(8.01)	124(255)	41(106)	4.7	6.2
	0.931(7.73)	135(275)	45(113)	0.3	3.8
	0.902(7.49)	171(340)	63(145)	0.06	0.6
	0.923(7.69)	120(248)	34(94)	0.7	12.5
	0.883(7.36)	302(576)	48(119)	0.21	1.7
	1.18(8.47)	194(381)	87(188)	0.01	0.18
	1.027(8.24)	197(387)	90(195)	0.01	0.13
	0.952(7.94)	230(446)	104(220)	0.01	0.02
	0.951(7.92)	188(370)	75(167)	2	0.4
	0.902(7.51)	77(171)	13/6(56/21)	4.1	76
	0.874(7.28)	89(192)	16/8(60/47)	3.6	42
	0.885(7.35)	102(216)	18/13(65/55)	2.3	25
	0.868(7.21)	117(243)	31/17(88/63)	1.5	13
	0.883(7.34)	126(259)	38/27(100/81)	1	8
	0.858(7.18)	112(234)	29/19(85/66)	1.9	30
	0.876(7.29)	156(313)	41/39(106/101)	0.4	4
	0.855(7.13)	148(298)	44/39(111/101)	0.4	5.5
	0.873(7.26)	199(390)	88/71(190/160)	0.55	0.4
	0.975(8.12)	156.3(313)	-57(-134)	0.21	2
	0.964(8.03)	148(298)	-47(-116)	0.39	3
	0.978(8.15)	187(369)	-71(-160)	0.5	0.4
	0.992(8.24)	120.3(249)	103/82	1.1	12.9
	0.8887.41	65.4149.7	-6	8	146
	0.9517.92	153307	153/136	0.17	3.7
	1.0278.56	202396	204/196	0.06	0.29

2.1.2. Solvent polarity:

Solvent polarity is the key word to get in depth into the effect of solvents on the resins and paints industry, this polarity is a result of electrical charges on molecules, the more electric charge the more polarity and vice versa.

The polarity affects compatibility and solubility parameters of the solvent on the resin and paint formulation, so choosing the ideal solvent depends on its polarity scale.

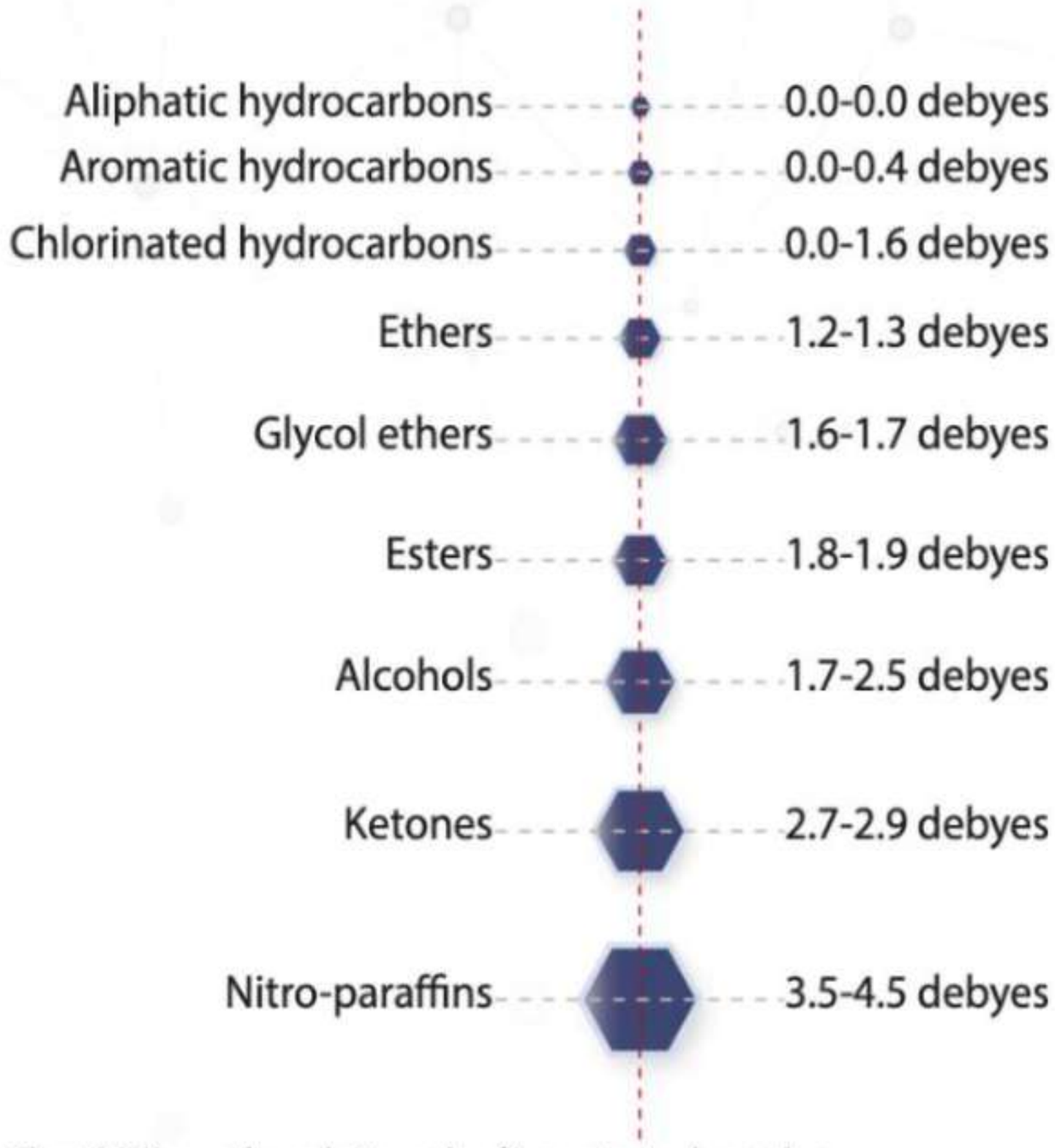


Chart (1) Shows the polarity scale of important solvent classes.

2.2. How to choose the ideal oil for your paint:

To choose the ideal oil for you paint, it is essential to consider the *conjugated double bonds* present into the oiland the *melting point* of that oil. This to determine the exact behavior of the oil into the resin.

2.2.1. Number of conjugated double bonds present in the main oils

The conjugated double bonds present into the oil are represented in form of fatty acids composition that is specifically for each type of oil. This criteria is directly affecting many parameters of the oils like drying time, yellowing resistance and flexibility of the end paint.

Name of the Oil	FATTY ACID COMPOSITION (PERCENTAGE)											
	Caproic (Hexoic)	Caprylic (Octoic)	Capric (Decoic)	Lauric (Dodecanoic)	Myristic (Tetradecanoic)	Palmitic (Hexadecanoic)	Stearic (n-Octadecanoic)	Oleic (C18:1)	Linolenic (C18:3)	Linoleic (C18:2)	Arachidic C20 (Eicosanoic)	Any special fatty acid
No. of conjugated D.B.	C10	C8	C10	C12	C14	C16	C18	C(18:1)	C(18:3)	C(18:2)	C20	Ricinoleic 86-90 9,10Dihydroxy Stearic 0.7
Castor Seed Oil	----	----	----	----	----	2	1	7	----	5	----	Palmitoleic tr -2.5
Coconut Oil	0-0.8	5.0-9.0	6.0-10.0	44.0-52.0	13.0-19.0	8.0-11.0	1.0-3.0	5.0-8.0	----	0-1.0	0-0.5	----
Cotton Seed Oil	----	----	----	----	0.4	20	2	35	----	42	----	----
Linseed Oil (Flax Seed Oil)	----	----	----	----	----	4.0-7.0	2.0-5.0	12.0-34.0	35.0-60.0	17.0-24.0	0.3-1.0	----
Olive Oil	----	----	----	----	0.1-1.2	7.0-16.0	1.0-3.0	65.0-80.0	----	4.0-10.0	0.1-0.3	----
Palm Kernal Oil	tr	3.0-5.0	3.0-7.0	40.0-52.0	14.0-18.0	7.0-9.0	1.0-3.0	11.0-19.0	----	0.5-2.0	tr	----
Palm Oil	----	----	----	----	0.5-2.0	32.0-45.0	2.0-7.0	38.0-52.0	----	5.0-11.0	----	----
Safflower Oil	----	----	----	----	tr.0.5	3.0-6.0	1.0-4.0	13.0-21.0	tr	73.0-79.0	0.2	----
Soya Bean Oil	----	----	----	----	tr.0.5	7.0-11.0	2.0-6.0	22.0-34.0	5.0-11.0	43.0-56.0	----	----
Sunflower Seed Oil	----	----	----	----	----	3.0-6.0	1.0-3.0	14.0-35.0	----	44.0-75.0	0.6-4.0	Behenic 0.8
Tung Oil	----	----	----	----	----	4	1	8	3	4	----	Eleostearic 80.0

Table (1) –Shows Fatty acid comosition (percntage) of important solvent classes.

2.2.2. Approximate melting point of the main oils

Each type of oil has its characteristic melting point that directly affects many parameters of the obtained resin and mainly its drying time.

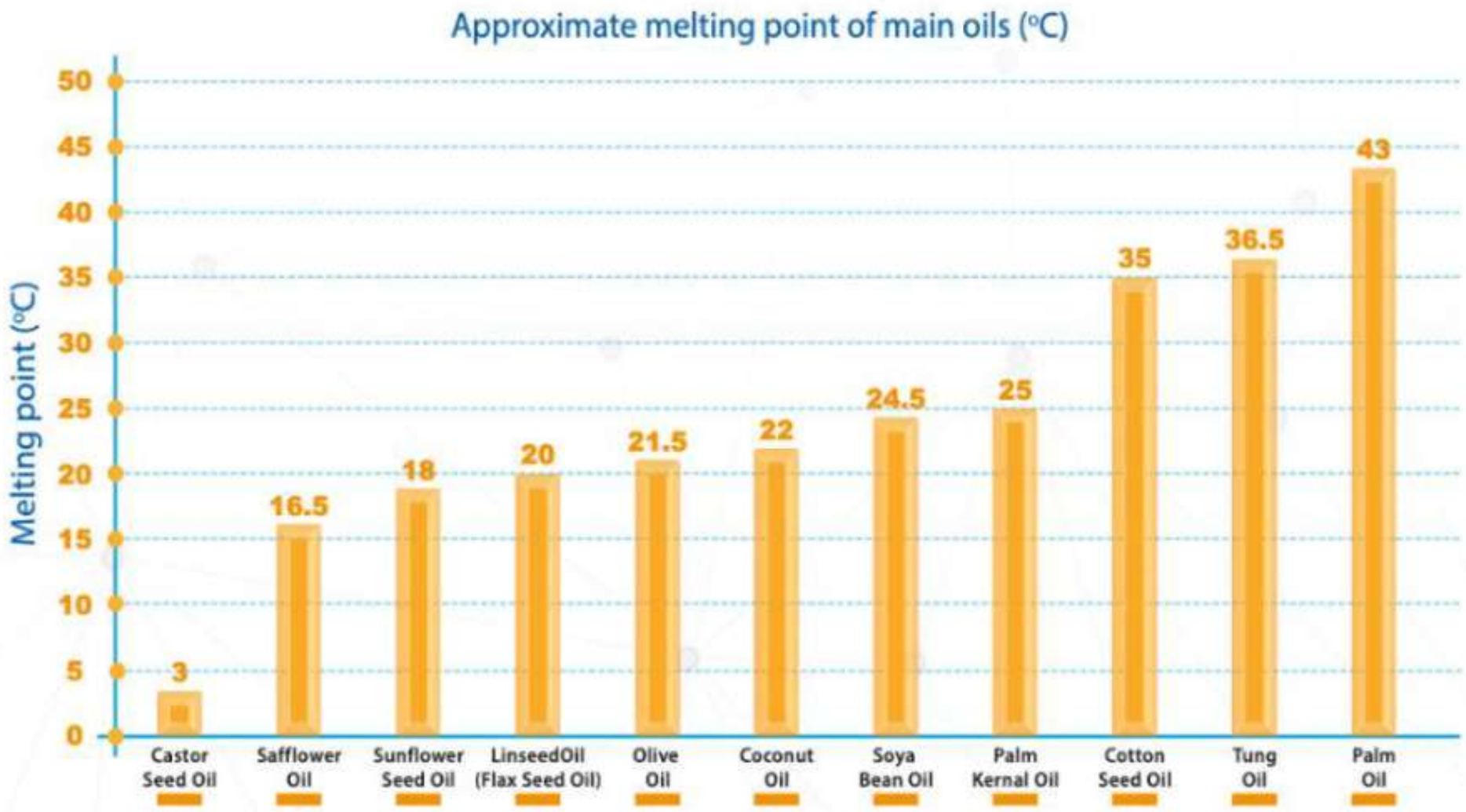


Chart (2): Shows Approximate melting point of main oils (°C).

Important calculations and conversions

1. Calculation of driers

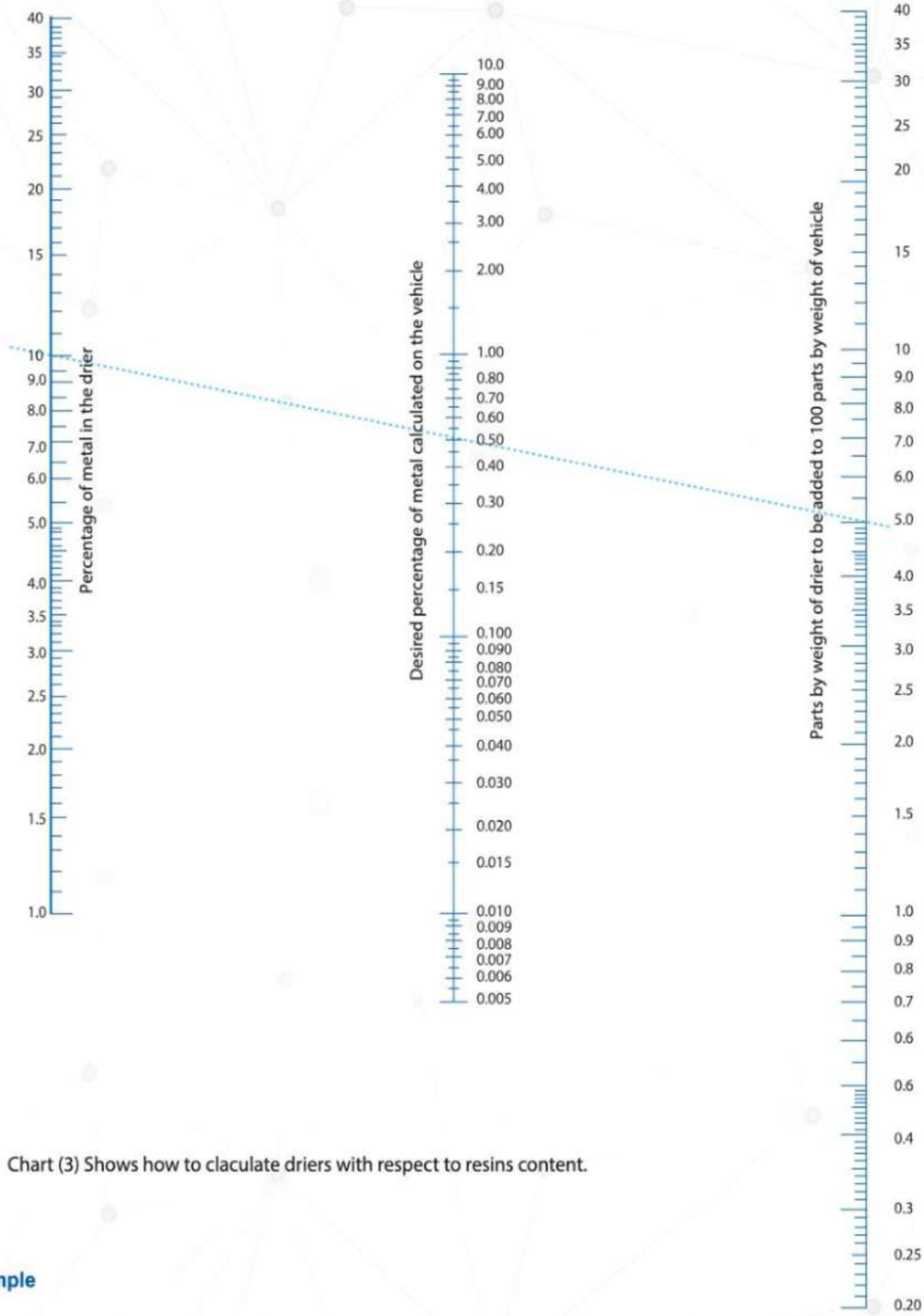


Chart (3) Shows how to claculate driers with respect to resins content.

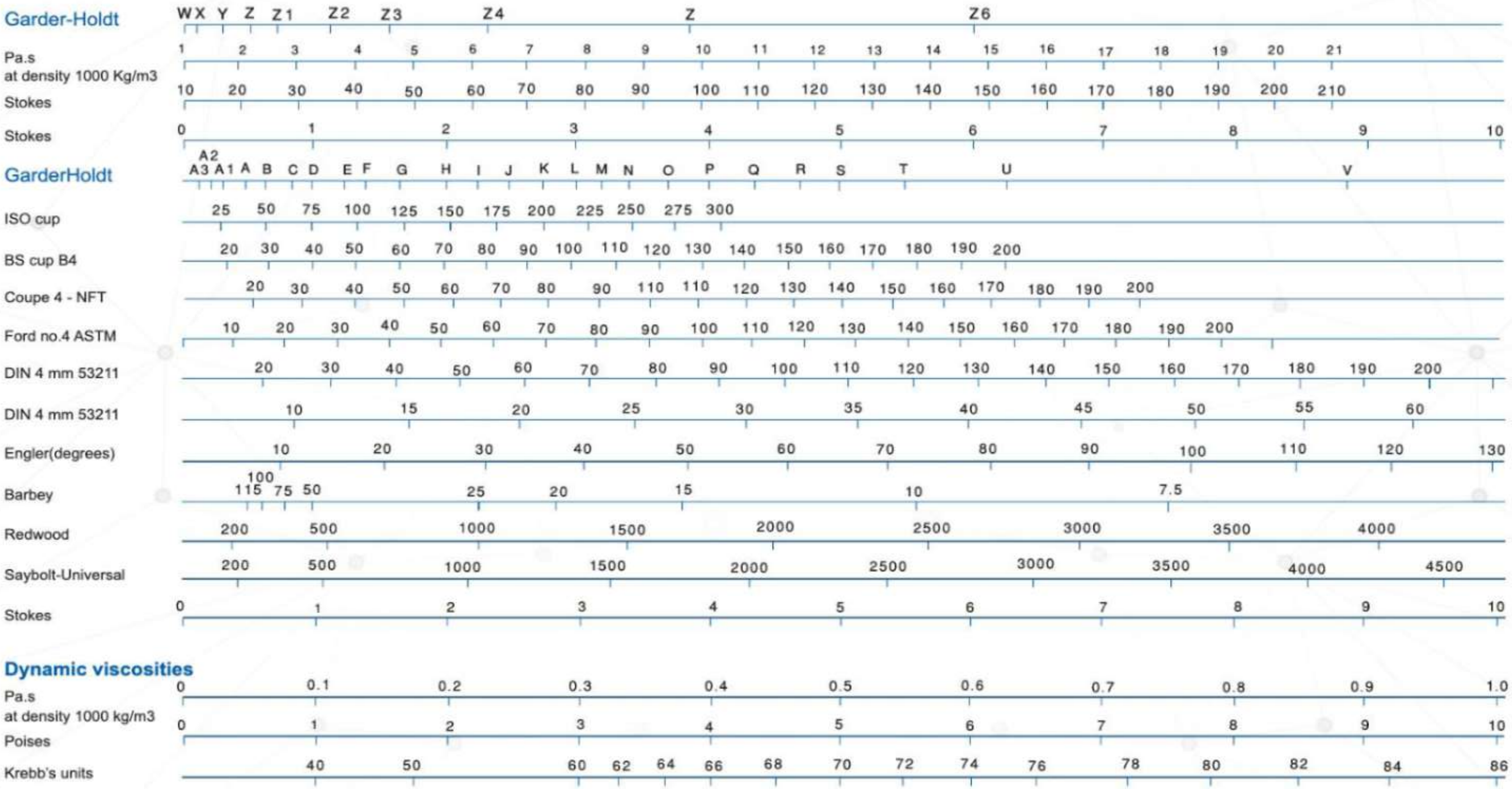
Example

Cobalt Octoate10% is available. A sicativation of 0.5% of Cobalt, calculated on the solid vehicle, is required.

How much drier must be added?
Draw a line which passes point 10 of the left scale, and point 0.5 of the centre scale. this line crosses the right hand scale at point 5, which means that 5 parts by weight of Cobalt Octoate 10% Co has to be added to 100 parts by weight of the solid vehicle.

Chart (4) Shows viscosity conversion values.

Kinematic viscosties



Dynamic viscosities

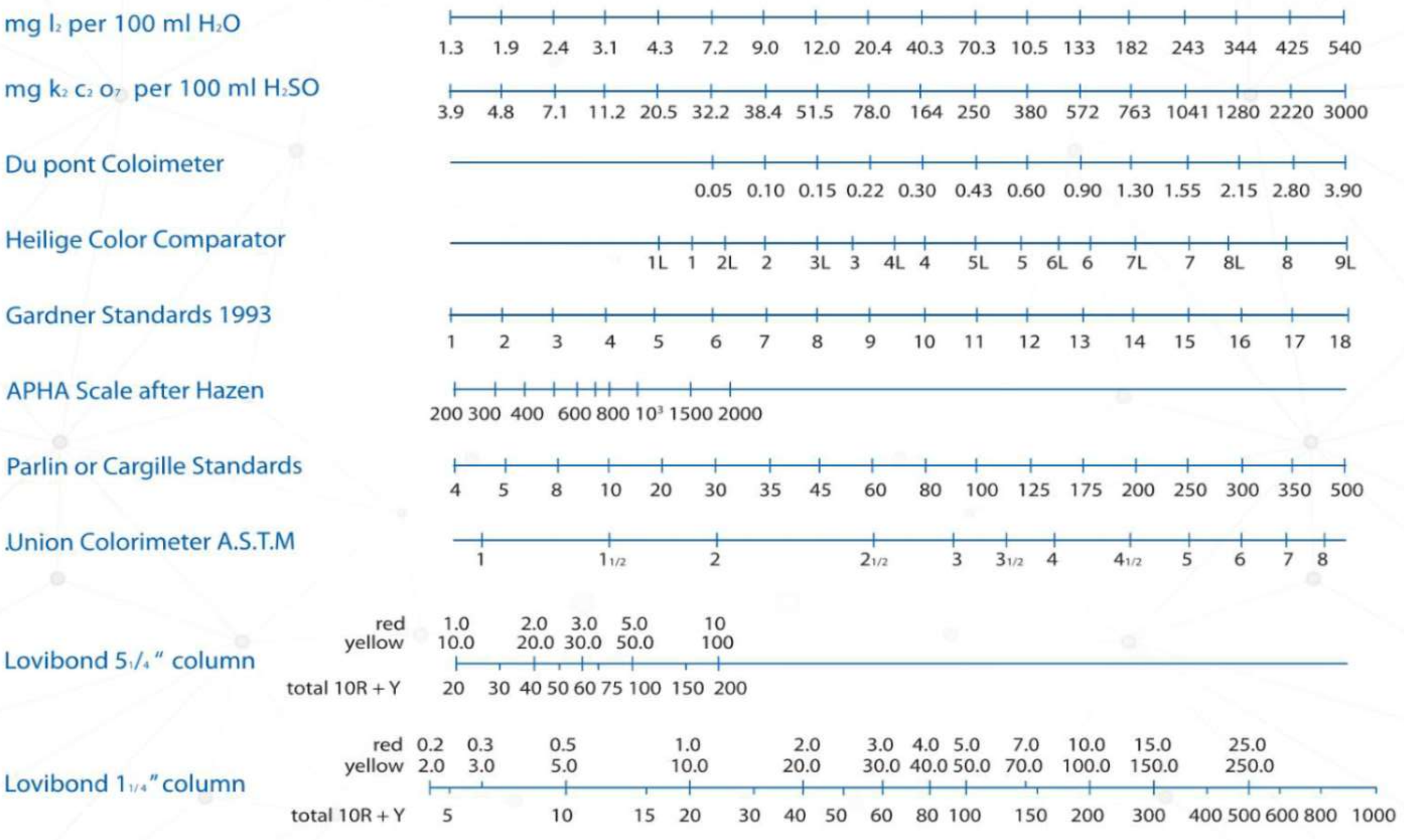


Chart (5) Shows Colour Conversion values.

The table only compares the colour intensities of the colour systems; colour shades cannot be presented in a single chart

4.Viscosity conversion table

VISCOSITY CONVERSIONS

(For Newtonian Fluids, @ 25 °C, °D = 1)

Centipoises	Ford Cup 4#	Zahn 2#	Zahn 3#	Zahn 4#	Gardner Holdt	Kerbs Stormer
1.0					A5-	
10.0		16			A4-	
15.0		17			A3-	
22.0	14	19			A2-	
32.0	15	20			A1-	
50.0	19	22			A	
65.0	22	27			B	
85.0	27	34			C	
100.0	30	41	12		D	
125.0	36	49	14	11	E	
140.0	40	58	16	13	F	
165.0	46	66	18	14	G	
200.0	50	82	23	17	H	52
225.0	55		25	18	I	54
250.0	68		27	20	J	56
275.0	74		32	22	K	59
300.0	81		34	24	L	61
320.0	86		36	25	M	62
340.0	91		39	26	N	63
370.0	99		41	28	O	64
400.0	107		46	30	P	65
435.0	116		50	33	Q	66
470.0	125		52	34	R	67
500.0	133		57	37	S	68
550.0	146		63	40	T	69
630.0	167		68	44	U	71
885.0	199			64	V	78
1.070.0	270				W	85
1.290.0					X	95
1.760.0					Y	100
2.270.0					Z	105
2.700.0					Z1-	114
3.620.0					Z2-	129
4.630.0					Z3-	136
6.340.0					Z4-	
9.850.0					Z5-	
14.800.0					Z6-	

Table (2) Shows viscosity conversion values for newtonian fluids.

Application lab instruments

As we always stirke excellence, we have successfully fully installed our application & instrumentation labs to consist of the most recent instruments, techniques and technologies that help us providing our best service standards to our esteemed clients and partners.

01 **GC-MS ANALYZER**
Determines molecular weight

02 **PARTICLE SIZE ANALYZER**
Determines particle size of emulsions

03 **OPTICAL PROPERTIES TESTERS**
Determines gloss on several angles, opacity, darkness, whiteness,...

04 **PENDULUM HARDNESS TESTER**
Determines the hardness of cured paint film

05

IMPACT TESTER

Determines the deformation of cured paint film under impact effect

06

CROSS CUT TESTER

Determines the adhesion power of cured paint film on substrate

07

TENSILE STRENGTH TESTER

Determines the tensile strength, fracture strength and modules ofthe resin casts

08

QUV TESTER

Determines effect of weather on the paint films

Some of our labs instruments and its major role are listed here. And for more detailed information, please ask for a copy of Egyptian British Co. application instruments brochure.

Notes

For more inquiries and clarifications,
we would be glad to receive your requests and calls to

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ISO 14001 (2015)
BS-OHSAS 18001 (2007)
ISO 9001 (2015)
ISO/ IEC 17025 (2005)