

PRODUCT GUIDE

INSULATING VARNISHES | EPOXY RESINS | THINNERS




JYOTI
ENTERPRISE

Bringing strength to your product...



PROFILE

JYOTI ENTERPRISE is a Private Company with its factory set-up situated at Bakrol-Bujrang, Ahmedabad, Gujarat, India. Our Company is certified by ISO 9001:2015. Our Company's products are approved by Government Lab named National Accreditation Board of Testing & Calibration Laboratories (NABL), International Laboratory Accreditation Cooperation (ILAC) & also by Private Lab named Electrical Research & Development Association (ERDA). The Company was founded by its Technocrats having an experience of five decades in manufacturing of Insulating Varnishes, Epoxy Resins & Hardeners, All types of Thinners, Wood Coating Materials, PU Resin & Hardener, All types of Synthetic Resins & many more Special Products.

Our Chairman Mr. Bharatbhai M. Zala, started with a small factory in 1982. In 2001, we became a Private Company with an installed capacity of just 50 tons per year & now we have achieved the Capacity of 3,000 tons per annum. The Credit of the company's rapid progress is largely attributed to our valued customers for patronising products of the company & also to our dedicated & diligent Employees.

Currently, we are one of the leading Manufacturers of Insulating Varnishes in India. We also Export to Middle East, Africa, Asian, South East Asia. We are known for our consistent quality & uninterrupted supply. We can vouch for the performance of our Materials. We have the manufacturing capacity to give full container load with one single batch.

We are committed to deliver consistently, Quality products & an assurance for the entire range of the products. This assurance begins with the purchase of the material, its analytical testing & approval before processing, stringent control of processing parameters, intermediate quality monitoring & approval of the finished products before dispatch. The norms of Quality Assurance Department are being strictly followed, without any compromise & deviation from the Industry standards. We have laid down stringent specifications & procedures for the purchase of raw material, processing parameters & specification of the finished goods testing in details.

We have facilities to develop & standardize Insulating varnishes & Resins to suit customer's requirements & specifications. Our R&D Centre is recognized by Government of India. Our visionary Chairman Mr. Bharatbhai Zala, is a qualified Chemical Engineer from UDCT Bombay University & has a Master's Degree in Chemical Engineering from Germany, Our Director, Mr. Vipul Zala is also a Chemical Engineer from Ld Engineering College of Engineering Ahmedabad.

VISION

- We are committed to significantly enhancing value as below:
- Fostering a spirit of continuous learning & innovation
- Adopting developments in Science & Technology
- Providing high Quality products & services, thus becoming the most preferred partner
- Having people who practice Values & exemplify a high standard of behaviour
- Seeking sustained, dynamic growth & securing long term success
- Taking responsible care of the surrounding environment
- Improving the quality of life of the communities we operate in



OUR VARIOUS PRODUCT RANGE

- INSULATING VARNISHES (AIR DRYING & BAKING)
- SLEEVE VARNISH
- WATER BASED PAPER VARNISH
- SOLVENT BASED PAPER VARNISH
- COPAL VARNISH
- CRAFT PAPER VARNISH
- CABLE VARNISH
- WIRE ENAMEL
- THINNERS
- EPOXY RESIN & EPOXY HARDENER
- PU RESIN
- WOOD COATING
- ALKYD RESINS
- NAIL POLISH LACQUER
- RUST PREVENTIVE
- INDUSTRIAL GUM

INDUSTRIES SERVED

Electric Motor Industries

Electric & Electronics Industries

Generators Industries

Adhesive Industries

Fan Industries

Big Transformers Industries

Power Tools Industries

Construction Industries

Armature Industries

Small Transformers Industries

Magnet Coil Industries

Paper Industries

Pharmaceuticals Industries

Welding Machine Industries

Paint Manufacturers

Art & Craft Industries

Submersible Pump Industries

Alternators Industries

Furniture Industries

Nail Polish Industries

Copper Wire Industries



PRODUCT SELECTION GUIDE

AIR DRYING INSULATING VARNISH & ANTI TRACKING VARNISH

PRODUCT NAME	CHEMICAL BASE	THINNER	VISCOSITY OF FLOW FORD CUP 4	CURING CYCLE (°C/4)	THERMAL CLASS	DISTINCTIVE PROPERTIES (WIRE ENAMEL)	SUGGESTED APPLICATIONS
Jyoti 111 FD	Phenolic Base	111	25-30	RT/24	130 B	Fast Drying, Anti Tracking (Available in Golden, Clear, Red), ERDA & NABL Approved	Electric Motor Fan, Stators, Welding Machine & Many More
Jyoti 222 FD	Polyester Water White	1234	25-30	RT/8	130 B	Fast Drying, Anti Tracking (Available only in Water White Clear Color), ERDA NABL Approved	Coating on PCB, SRBP Components, Stators, Electric Motor
Jyoti 141 FD	Polyester Imide	1205	25-30	RT/24	180 H	Clear Fast Drying, High Class Varnish	Alternators, HV Generators, Transformers
Jyoti 121 FD	Isophthalic	1205	25-30	RT/24	155 H	Clear Fast Drying, High Class Varnish	Coils, Wet Grinders, HV Generators, Transformers
Jyoti 555 FD	Alkyd Phenolic	555	25-30	RT/24	130 B	Air Drying (Available in Golden, Clear, Red)	Electric Motor, Fan Stators, Welding Machine, Rewinding
Jyoti 777 FD	Alkyd	555	25-30	RT/24	120 E	Air Drying (Available in Golden, Clear, Red)	Electric Motor, Fan Stators, Welding Machine, Rewinding
Jyoti 160 FD	Card Phenol	111	25-30	RT/24	130 B	Air Drying (Available in DarkBrown, Yellow Colour)	Electric Motor, Fan Stators, Welding Machine, Rewinding
Jyoti Electro Red Finishing Varnish	Alkyd Phenolic Base	111	100-120	RT/24	130 / B	Anti Tracking Air Drying Red Pigment	Finishing Coat on Stators, Rotors, Winding Coils
Jyoti Electro Grey Finishing Varnish	Alkyd Phenolic Base	111	100-120	RT/24	130 B	Anti Tracking Air Drying Grey Pigment	Finishing Coat on Stators, Rotors, Winding Coils
Jyoti F 193 (Red)	Polyester amine	1221	15-20	RT/24	180 / H	2K RT Cured, Red Colour High Heat Resistance Anti Tracking	Finishing Varnish for Turbo Generator Motors etc
Jyoti B 1665	Epoxy	1221	100-120	RT/24	155 / CF	Single Component Class 155 Red Pigmented Anti Tracking Finishing Varnish	Finishing Coat for Electric Machines

IMPREGNATING BAKING VARNISH

PRODUCT NAME	CHEMICAL BASE	THINNER	VISCOSITY BY FLOW FORD CUP 4	CURING CYCLE (°C/4)	THERMAL CLASS	DISTINCTIVE PROPERTIES (WIRE ENAMEL)	SUGGESTED APPLICATIONS
Jyoti B-165	Alkyd Phenolic	1205	40-60	130/8	130 B	Excellent Resistance to Centrifugal Forces	Impregnation of High Speed Motor, Armatures Driers in Chemicals, Hand Tools etc
Jyoti B-195	Alkyd Phenolic	1205	40-60	130/6	130 B	Short Curing Schedule	Impregnation of Motor Stators, Transformers, etc
Jyoti B-192	Alkyd	1234	40-60	120/2	130 B	Flexible Cured Film, Short Curing Schedule	Impregnation of Fan Stators
Jyoti 131 FD	Modified Polyester	131	60-70	150/4	155 F	Mix Solvent, Excellent Resistance to Chemical ERDA/ NABL Approved	Impregnation of Motor Stators, Rotors, Generators, etc
Jyoti 151 FD	Modified Polyester	151	60-70	150/4	180 H	Mix Solvent tough & elastic cured film ERDA, NABL Approved	Impregnation of traction Motors, Dry Tybe Transformers, Generators etc
Jyoti 163 FD	Epoxyester Melamine	1205	40-50	150/8	180 H	Resistance to refrigerates & Hydrolytic stability, ERDA & NABL Approved	Impregnation of Hermetic Motor Stators
Jyoti F 150	Isophthalic Alkyd	1205	60-70	160/6	155 H	Excellent Dielectric properties under moist condition, good bond & adhesive strength	Impregnation of motor stators, rotors, generators, Aux traction motors, etc
Jyoti H 171	Polyesteride	1218	60-70	150/4	180 H	Good Bond Strength at class temperature, Excellent Resistance to chemicals & moisture	Impregnation of tractionmotors, dry type transformers, generators
Jyoti F 157	Isophthalic Alkyd	1205	50-60	150/4	155 F	Excellent resistance to chemical, good dielectric properties	Impregnation of motor stators, rotors, generators etc
Jyoti C 350	Silicon	333	50-55	150/8	220 C	Good Bond strength at class temperature resistance to chemical	Impregnation of traction motors dry type transformers
Jyoti V 1155	Polyurethane	1218	50-60	150/3	155 F	Resistant to refrigerant	Sleeve, Fiber Glass Tape Binder Varnish
Jyoti 1800	Epoxy	Aqua solve	300-600 Mpa.s.	160/2	180 H	Resistant to good bond strength & hard cured film, water soluble environment friendly	Impregnation of winding of Hermetic motors



CORE PLATE VARNISHES

PRODUCT NAME	CHEMICAL BASE	THINNER	VISCOSITY BY FLOW FORD CUP 4	CURING CYCLE (°C/4)	THERMAL CLASS	DISTINCTIVE PROPERTIES	SUGGESTED APPLICATIONS
Jyoti 14000 CVP	Alkyd Phenolic	14000	110-120	350/450 (1-2 Min)	155 F	Insulation Resistance	Coating, Laminations of motors, Transformers, Hydro Generators etc

NAIL COIL LACQUER VARNISHES

PRODUCT NAME	CHEMICAL BASE	THINNER	VISCOSITY BY FLOW FORD CUP 4	CURING CYCLE (°C/4)	THERMAL CLASS	DISTINCTIVE PROPERTIES	SUGGESTED APPLICATIONS
Jyoti RP	Alkyd	NC	15-20	RT/2-3 Min	120 E	Nail Coil Lacquer, Good Gloss	Nail Coil Varnish, Rust preventive, Ant
Jyoti NPL	Alkyd	111	120-150	RT/3-4 Min	120 E	Nail Coil Lacquer, Good Gloss	Nail Polish Lacquer Clear

IMPREGNATING RESINS (EPOXY BASED SOLVENTLESS IMP. RESINS)

Resin Hardener	MIXING RATIO	VISCOSITY BY BROOKFIELD (MPass)	POT LIFE @ 25°C (MIN)	THERMAL CLASS	DISTINCTIVE PROPERTIES	SUGGESTED APPLICATIONS
Jyoti 1520&1411 Hardener	100:55		72	120/E	High Viscosity, Long Pot Life	EMC Filters
Jyoti 1520&1758 Hardener	100:10	180	27	120/E	2K High Viscosity Excellent Flexibility, Anhydride Cured VPI	High Speed Armatures like starters, motors, alternators
Jyoti 1505 E&1758 Hardener	100:10	170	45	120/E	2K Low Viscosity long pot life	Motors, Generators, Armatures
Jyoti 1504 & 1758 Hardener	100:10		75-95	120/E	Low Viscosity, Fast Curing	Motors & Generators
Jyoti 1522 & 1412 Hardener	100:60		15	120/E	High Viscosity, Fast Curing	Adhesive for amorphous core sealing
Jyoti 1520 & 1760 Hardener	100:27		80-90	-	Low Viscosity, High Tg	HV Components, bushings, insulators
Jyoti 1520 & 17055 Hardener & Accelerator 1803	100:100/1		80	155/F	Low Viscosity, High Pot Life, Excellent Electrical properties	Coating & Impregnation
Jyoti Fil 160 & 1408 Hardener	100:25		135	120/E	Low exotherm, long pot life	Sensors & actuators, safety devices, lighting transformers, instrument transformers, outdoor devices, capacitors, electromagnetic devices
Jyoti Fil 160 & 1758 Hardener	100:05	10000 15000	42	120/E	Fast Cure, Excellent chemical res.	
Jyoti 15503 & 1408 Hardener	100:25		135	120/E	Low Viscosity, good thermal shock	Automotive electronics, modules & sensors
Jyoti 15503 & 1758 Hardener	100:05		42	130/B	Fast cure, excellent chemical resistant	Automotive electronics, modules & sensors
Jyoti Gelcoat Red & 1758 Hardener	100:10		50	130/B	Thixotropic, fast cure	Switchgears
Jyoti Gelcoat Red & 1411 Hardener	100:35		135	-	Thixotropic, long pot life	Motors & Generators
Jyoti 1605 & 1762 Hardener	100:30	180	30	120/E		

UNSATURATED POLYESTER / IMIDE SOLVENTLESS TRICKLE RESINS

PRODUCT NAME	HARDNER	GEL TIME	VISCOSITY BY BROOKFIELD (MPass)	CURING CYCLE (°C/h)	THERMAL CLASS	DISTINCTIVE PROPERTIES	SUGGESTED APPLICATIONS
Jyoti 11502	P	100/40-55	480-520	140/2	180 H	Good Tank stability, ERDA & NABL Approved	Impregnation of general purpose motors, rewinding of medium, voltage machines
Jyoti 11502		120/15-25	120-150	150/1	180 H	Fast cure high reactivity resin DIP & VPI 1K, ERDA NABL Approved	Impregnation of general purpose motors rewinding of medium Voltage machines
Jyoti 12005/500		120/20-40		160/4	200 C	1 Balanced Properties	Impregnation of Traction machines
Jyoti 11002	K12	80/40-45	480-520	130/0.5	155 F	Fast Cured, High Reactivity Resin	Impregnation of Solenoid, House hold Electrical machines etc
Jyoti FT 11040/120	K12	80/40-45	250-300	130/0.5	180 H	Low Viscosity tough & Elastic	Impregnation of alternators, stators, Electrical Motors, Armatures
Jyoti FT 11040/120	K12	80/40-45	35-45	130/0.5	180 H	Low Viscosity tough & Elastic	Impregnation of alternators, stators, Electrical Motors, Armatures
Jyoti FT 11040/180	K12	80/40-45	160-200	130/0.5	180 H	High Reactivity High Mechanical Strength	Impregnation of Auto Components
Jyoti FT 11080/85E	K12	100/5-10	75-100	130/0.2	180 H	High Reactivity High Mechanical Strength	Impregnation of Auto Components
Jyoti FT 12001/500E	K12	80/20-30	120-135	130/0.2	180 H	High Reactivity High Mechanical Strength	Impregnation of Auto Components



WIRE ENAMEL (POLYESTER WIRE ENAMEL)

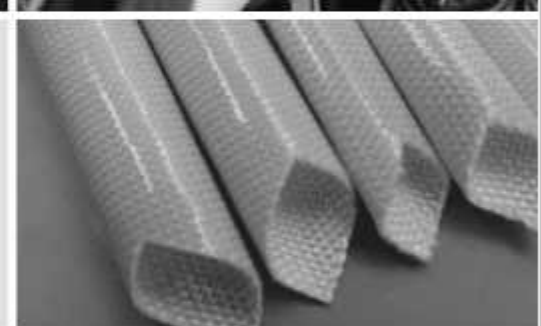
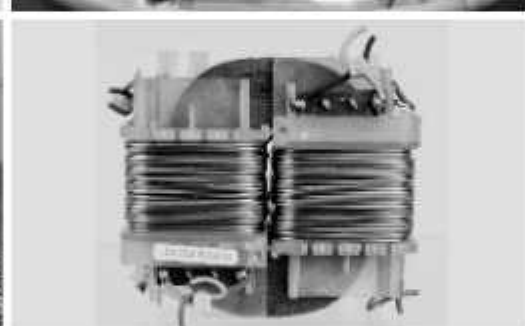
PRODUCT NAME	CHEMICAL BASE	VISCOSITY BY FLOW FORD CUP 4	SOLID CONTENTS	RECOMMENDED FOR WIRE SIZE	CLASS OF WIRE	DISTINCTIVE PROPERTIES (WIRE ENAMEL)	RELEVANT SPECIFICATION
Jyoti F 135 A	Polyester	90-110 s	34-36	0.05-1.0	130L	Wide Curing Range	IS 13730-34/IEC 60317-34
Jyoti F 135-AL	Polyester	90-110 s	34-36	0.25-1.6	130L	Specially designed for Aluminium conductor, Low curing Temp.	IS 13730-34/IEC 60317-34
Jyoti F 1215-135	Polyester	90-110 s	34-36	0.05-1.0	130L	High cut-through	IS 13730-34/IEC 60317-34
Jyoti F 1216-135	Polyester	80-100 s	34-36	0.05-1.0	130L	High processing speed, high cut through	IS 13730-34/IEC 60317-34
Jyoti F 1216-135 D	Polyester	80-100 s	34-36	0.05-1.0	130L	Best runability on high speed machine. Medium Brown colour also make it suitable for AL conductor	IS 13730-34/IEC 60317-34
Jyoti F 1218-135 HS	Polyester	80-100 s	34-36	0.05-1.0	130L	For High Speed Enamelling wire, high processing speed	IS 13730-34/IEC 60317-34
Jyoti G 1250-135	Polyester	90-110 s	34-36	0.05-1.0	130L	Reddish brown coloured wire, high processing speed	IS 13730-34/IEC 60317-34
Jyoti G 1230-135 G	Polyester	90-110 s	34-36	0.05-1.0	130L	Reddish Golden coloured wire, high processing speed	IS 13730-34/IEC 60317-34
Jyoti 1231-135 P	Polyester	80-100 s	34-36	0.05-1.0	130L	Excellent Dark to light brown colour wide curing range	IS 13730-34/IEC 60317-34
Jyoti 1232-135 YG	Polyester	90-110 s	34-36	0.3-1.6	130L	Yellowish Golden coloured wire, high processing speed	IS 13730-34/IEC 60317-34
Jyoti 1232-135 YG (H)	Polyester	60-80 s	34-36	0.05-1.0	130L	Yellowish Golden coloured wire, high processing speed, suitable for horizontal machines	IS 13730-34/IEC 60317-34

WIRE ENAMEL (MODIFIED POLYESTER WIRE ENAMEL)

PRODUCT NAME	CHEMICAL BASE	VISCOSITY BY FLOW FORD CUP 4	SOLID CONTENTS	RECOMMENDED FOR WIRE SIZE	CLASS OF WIRE	DISTINCTIVE PROPERTIES (WIRE ENAMEL)	RELEVANT SPECIFICATION
Jyoti 1101-136	Modified Polyester	100-120 s	34-36	0.05-2.0	130L	Improved heat stock	IS 13730-34/IEC 60317-34
Jyoti 1227-135	Modified Polyester	110-135 s	34-36	0.2-5.0	130L	Excellent flexibility & adherence	IS 13730-34/IEC 60317-34
Jyoti 1235-135 U	Modified Polyester	80-100 s	34-36	0.05-2.5	130L	High processing speed Higher tan delta, Excellent flexibility	IS 13730-34/IEC 60317-34
Jyoti 1256-140	Modified Polyester	600-800 mPas	39-41	0.05-2.0	155	Low viscosity, Excellent heat shock	IS 13730-3/IEC 60317-3
Jyoti 1257-138	Modified Polyester	750-850 mPas	37-39	0.05-2.0	155	For High speed enamelling m/c having $V \times d > 100$	IS 13730-3/IEC 60317-3
Jyoti 1257-135	Modified Polyester	80-100 s	34-36	0.05-1.0	155	For High speed enamelling m/c having $V \times d > 100$ felt machines	IS 13730-3/IEC 60317-3
Jyoti 1251-138 F	Modified Polyester	750-850 mPas	37-39	0.05-2.0	155	Class 155 economical version, for high speed to low speed machines	IS 13730-3/IEC 60317-3
Jyoti 1251-135 F	Modified Polyester	80-100 s	34-36	0.05-1.0	155	Class 155 economical version, for high speed to low speed machines, felt wiping	IS 13730-3/IEC 60317-3

SPECIAL PURPOSE VANISHES

PRODUCT NAME	CHEMICAL BASE	THINNER	VISCOSITY BY FLOW FORD CUP 4	CURING CYCLE (°C/4)	THERMAL CLASS	DISTINCTIVE PROPERTIES (WIRE ENAMEL)	RELEVANT SPECIFICATION
Bharatool 180	Polyvinyl Alcohol	Dist. Water	10000-15000	RT/48	105 A	Good Bonding resistant to transformers oil	Gluing of cotton tapes, hard, bonds etc
Jyoti P11	Alkyd Phenolic	111	40-50	RT/24	130 B	Fast Drying Full Gloss	Paper Drum, Tubes, Paper Cons, Composite Cones
Jyoti P22	Alkyd	111	40-50	RT/24	130 B	Slow Drying Full Gloss	Paper Drum/Tubes, Paper Cons, Composite Cones
Jyoti 1538	Acrylic	Water	40-45	RT/3-4	100 B	Semi Gloss Water Soluble	Paper Drum, Tubes, Paper Cons, Composite Cones



PROUDLY ASSOCIATED WITH



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