

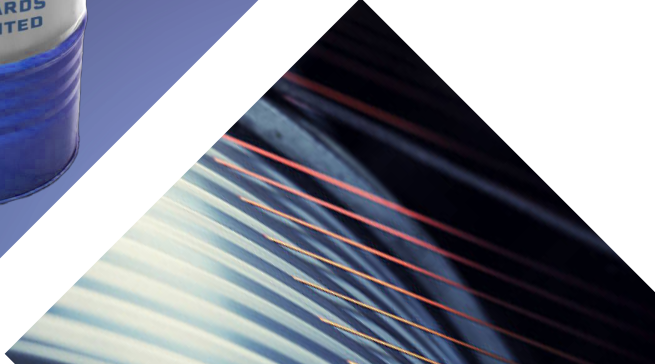
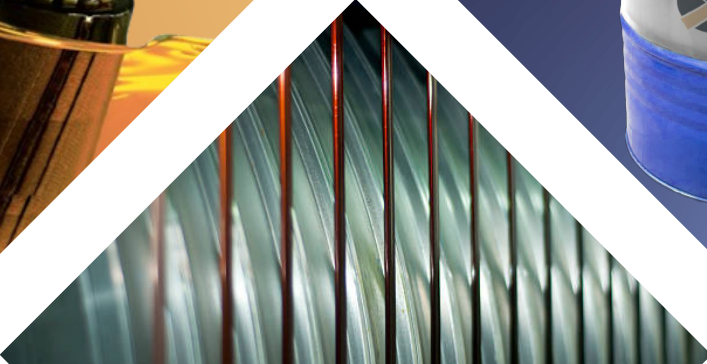
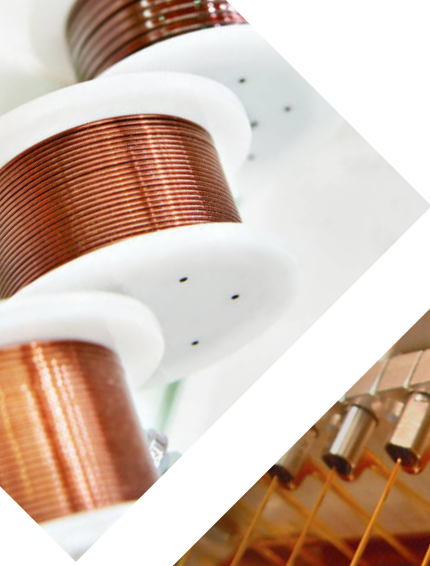


**UMANG
BOARDS
LIMITED**

Product Catalogue

Insulating Chemicals

Wire Enamels
& Thinners



UMANG BOARDS LIMITED (UNIT-2)

WIRE ENAMEL DIVISION (PRODUCT LIST)

UBL WIRE ENAMEL POLYESTER

PRODUCT NAME	UB 1100	UB 1200 RG	UB 1600	UB 1635
THERMAL CLASS	130L	130L	130L	130L
CHEMICAL BASE	Polyester	Polyester	Polyester	Polyester
VISCOSITY (4 MM FORD CUP @ 30°C)	90-110 s	70-100 s	85-105 s	85-105 s
SOLID CONTENT (1GM/180°C/2 HR/OVEN)	35-37%	34-36%	34-36%	34-36%
RECOMMENDED WIRE SIZE	0.50 - 2.50 mm	0.04 - 1.80 mm	0.05 - 1.25 mm	0.05 - 1.25 mm
KEY CHARACTERISTICS AND APPLICATIONS	High cut through and peel value.	Appealing, Bright, and Reddish Golden color on wire. High processing speed, enhanced mechanical, and electrical properties.	Enhanced thermal and electrical properties. High processing speed on horizontal and vertical machines.	Pin hole free wire, excellent curing range, and excellent flexibility.
TESTING RESULTS ON WINDING WIRES (AS PER IS, IEC, AND NEMA SPECIFICATIONS)				
HEAT SHOCK (175°C IN 30 MIN.)	6d (Pass)	6d (Pass)	6d (Pass)	6d (Pass)
FLEXIBILITY & ADHERENCE	3d Mandrel (No Crack)	3d Mandrel (No Crack)	3d Mandrel (No Crack)	3d Mandrel (No Crack)
	20-25% Elongation (No crack)	20-25% Elongation (No crack)	20-25% Elongation (No crack)	20-25% Elongation (No crack)

UBL WIRE ENAMEL MODIFIED POLYESTER

PRODUCT NAME	UB 2700	UB 2200-35	UB 2200-38
THERMAL CLASS	130L	155	155
CHEMICAL BASE	Modified Polyester	Modified Polyester	Modified Polyester
VISCOSITY (4 MM FORD CUP @ 30°C)	105-135 s	90-110 s	115-145 s
SOLID CONTENT (1GM/180°C/2 HR/OVEN)	35-37%	34-36%	37-39%
RECOMMENDED WIRE SIZE	0.15 - 5.50 mm	0.05 - 1.50 mm	0.35 - 2.5 mm
KEY CHARACTERISTICS AND APPLICATIONS	Excellent flexibility, workability, adherence and enhanced heat shock.	Balanced electrical, mechanical and chemical resistant properties. Suitable for all horizontal machines.	Balanced electrical, mechanical and chemical resistant properties. High solids, Suitable for all vertical machines.
TESTING RESULTS ON WINDING WIRES (AS PER IS, IEC, AND NEMA SPECIFICATIONS)			
HEAT SHOCK (175°C IN 30 MIN.)	6d (Pass)	5d (Pass)	5d (Pass)
FLEXIBILITY & ADHERENCE	3d Mandrel (No Crack)	3d Mandrel (No Crack)	3d Mandrel (No Crack)
	20-25% Elongation (No crack)	20-25% Elongation (No crack)	20-25% Elongation (No crack)

UBL THINNER FOR WIRE ENAMEL

PRODUCT NAME	UB 500
CHEMICAL BASE	CRESYLIC ACID
KEY CHARACTERISTICS AND APPLICATIONS	Suitable to be used for enamel grades (Cleaning or Thinning): Polyester, Modified Polyester, and Polyesterimide

UBL WIRE ENAMEL POLYESTERIMIDE				
PRODUCT NAME	UB 5400-32	UB 5400-35	UB 5400-38	UB 5300-39
THERMAL CLASS	180	180	180	180
CHEMICAL BASE	Theic Polyesterimide	Theic Polyesterimide	Theic Polyesterimide	Theic Polyesterimide
VISCOSITY (4 MM FORD CUP @ 30°C OR BROOKFIELD VISCOMETER)	45-65 s	60-80 s	700-900 mPas	700-900 mPas
SOLID CONTENT (1GM/180°C/1 HR/OVEN)	31-33%	34-36%	37-39%	38-40%
RECOMMENDED WIRE SIZE	0.04 - 0.65 mm	0.05 - 1.25 mm	0.05 - 1.75 mm	0.05 - 3.5 mm
KEY CHARACTERISTICS AND APPLICATIONS	Excellent flexibility, adherence, cut through properties High tan δ bending point. Suitable for fine wires	Excellent flexibility, adherence, cut through properties High tan δ bending point. Suitable for medium sized wires	Excellent flexibility, adherence, cut through properties High tan δ bending point and high processing speed	Suitable for high speed enamelling machines High solid enamel with enhanced electrical and thermal properties
TESTING RESULTS ON WINDING WIRES (AS PER IS, IEC, AND NEMA SPECIFICATIONS)				
HEAT SHOCK (200°C IN 30 MIN.)	3d (Pass)	3d (Pass)	3d (Pass)	3d (Pass)
FLEXIBILITY & ADHERENCE	3d Mandrel (No Crack)	3d Mandrel (No Crack)	3d Mandrel (No Crack)	3d Mandrel (No Crack)
	20-25% Elongation (No crack)	20-25% Elongation (No crack)	20-25% Elongation (No crack)	20-25% Elongation (No crack)
UBL WIRE ENAMEL FOR RECTANGULAR CONDUCTORS				
PRODUCT NAME	UB 5000 FR	UB 5300-36 R	UB 5300-40 R	
THERMAL CLASS	155	180	180	
CHEMICAL BASE	Polyesterimide	Theic Polyesterimide	Theic Polyesterimide	
VISCOSITY (4 MM FORD CUP @ 30°C OR BROOKFIELD VISCOMETER)	85-105 s	75-95 s	850-1050 mPas	
SOLID CONTENT (1GM/180°C/1 HR/OVEN)	33-35%	35-37%	39-41%	
RECOMMENDED WIRE SIZE	Rect. Cond. & 1.5-5.5 mm	Rect. Cond. & 1.5-5.5 mm	Rect. Cond. & 1.5-5.5 mm	
KEY CHARACTERISTICS AND APPLICATIONS	Excellent flexibility and adherence. Suitable for rectangular conductors on felt application	Excellent mechanical and thermal properties. Suitable for felt application	Excellent mechanical and thermal properties	
TESTING RESULTS ON WINDING WIRES (AS PER IS, IEC, AND NEMA SPECIFICATIONS)				
HEAT SHOCK (200°C IN 30 MIN.)	S bend (Pass)	S bend (Pass)	S bend (Pass)	
FLEXIBILITY & ADHERENCE	5(width) & 4(thicknes) (No Crack)	5(width) & 4(thicknes) (No Crack)	5(width) & 4(thicknes) (No Crack)	
	15-20% Elongation (No crack)	15-20% Elongation (No crack)	15-20% Elongation (No crack)	
UBL WIRE ENAMEL FOR CTC APPLICATIONS				
PRODUCT NAME	UB 6000	UB 6000-A	UB 6000-B	
THERMAL CLASS	120	120	120	
CHEMICAL BASE	Polyvinyl formal	Polyvinyl formal	Polyvinyl formal	
VISCOSITY (BROOKFIELD VISCOMETER)	3000-5000 mPas	4500-8000 mPas	16000-22000 mPas	
SOLID CONTENT (1GM/180°C/1 HR/OVEN)	21-23%	24-26%	25-27%	
RECOMMENDED WIRE SIZE	Rect. Cond. & 0.5-5.5 mm	Rect. Cond. & 0.5-5.5 mm	Rect. Cond. & 0.5-5.5 mm	
KEY CHARACTERISTICS AND APPLICATIONS	Oil resistance, strong mechanical properties, great workability, and adhesion. Suitable for CTC	Oil resistance, strong mechanical properties, great workability, and adhesion. Suitable for CTC	Oil resistance, strong mechanical properties, great workability, and adhesion. Suitable for CTC	
TESTING RESULTS ON WINDING WIRES (AS PER IS, IEC, AND NEMA SPECIFICATIONS)				
HEAT SHOCK (200°C IN 30 MIN.)	S bend (Pass)	S bend (Pass)	S bend (Pass)	
FLEXIBILITY & ADHERENCE	5(width) & 4(thicknes) (No Crack)	5(width) & 4(thicknes) (No Crack)	5(width) & 4(thicknes) (No Crack)	
	15-20% Elongation (No crack)	15-20% Elongation (No crack)	15-20% Elongation (No crack)	



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