POLI W

Industrial Motors

Commercial & Appliance

Automation

Digital & Systems

Energy

Transmission & Distribution

Coatings

Enamel for copper and aluminium wires









POLI W - Enamel for copper and aluminium wires



Polyesterimide (PEI) Enamel modified with THEIC

Recommended for application on high thermal class wires. Presents excellent chemical and electrical properties for manufacture of coiled products for transformers, hermetic motors and motors in general.

Product	% Solids	Brookfield Viscosity	Application	Application System
BREESY* 180/38700 PEI H	37,50 ± 0,5%	600 – 700 cps	Enameling of circular copper and aluminum wires, nominal diameter 0.25 - 2.00mm. Degree 1 and 2.	Dies, horizontal and vertical furnaces
POLI W 180/38700 PEI	36 ± 1 %	600 - 750 cps	Circular copper wires, nominal diameter 0.25 - 2.00mm	
POLI W 180/36 PEI Green		600 – 750 cps		
POLI W 180/36 PEI	36 ± 1 %		Circular copper wires, nominal diameter 0.25 – 2.00mm	
POLI W 180/36 PEI ESPECIAL	30 ± 1 /0	600 – 700 cps		
POLI W 180/38 PEI	38± 1 %	500 - 600 cps	Circular copper wires, nominal diameter 0.15 – 1.50mm	Dies
POLI W 180/37 PEI	37 ± 1 %	400 – 500 cps	Circular copper wires, nominal diameter 0.25 – 2.00mm	
POLI W 180/33 PEI RG	33 ± 2 %	1100 - 1300 cps	Rectangular copper wires	
POLI W 180/39 PEI	38 ± 1%	700 – 800 cps	Thick circular copper wires, nominal diameter 1.32 - 3.26mm	
POLI W E180/33 PEI	33 ± 1 %	280 – 380 cps	Fine circular copper wires, nominal diameter 0.15 – 0.60mm. Degree 1 and 2	
POLI W 180/29 PEI	29±1%	110 - 140 cps	Circular copper wires, nominal diameter 0.03 – 1.00mm	Felts

^{*} BREESY line product - Without cresol.

Weldable Polyurethane Enamel (PU)

Recommended for applications on class F/H wires for the electrical and electronic industry and coiled products in general. Presents excellent weldability and "pin-holes" test resistance.

Product	% Solids	Brookfield Viscosity	Application	Application System
POLI W 155/26 PU-SD F	ed 26 ± 1 %	80 – 100 cps	Circular copper wires, nominal diameter 0.03 – 0.80mm. Degree 1 and 2	Felts
POLI W 155/26 PU-SI	26 ± 1 %	80 – 100 cps	Circular copper wires, nominal diameter 0.03 – 0.80mm. Degree 1 and 2	reits
POLI W 155/35 PU-SI	35 ± 1 %	400 – 500 cps	Circular copper wires, nominal diameter 0.355 – 1.50mm. Degree 1 and 2	Dies
POLI W 180/35 PU-SI	33 ± 1%	480 – 580 cps	Circular copper wires, nominal diameter 0.10 – 1.5mm. Degree 1 and 2	Dies
POLI W 180/23 PU-SI	22 ± 2%	50 - 60 cps	Circular copper wires, nominal diameter 0.03 – 0.40mm. Degree 1 and 2	Felts

Polyvinylformal Enamel (PVF)

Recommended for application on thick and rectangular wires for manufacture of transposed cables and wires for transformers. Presents excellent mechanical and electrical properties and resistance to transformers oil.

Product	% Solids	Brookfield Viscosity	Application	Application System
BREESY* 120/18 PVF	18 ± 2 %	1900 – 2500 cps	Thick circular copper wires; rectangular wires	Dies

^{*} Product da Linha BREESY - Sem cresol.

Polyamidimide Enamel (PAI)

Recommended for application on enameled wires, with overcoat function, providing wires with excellent mechanical properties and high thermal class increasing chemical resistance properties. Recommended for coils of hermetic motors and motors in general.

Product	% Solids	Brookfield Viscosity	Application	Application System
POLI W E200/26 PAI	26 ± 2 %	150 – 220 cps	Circular copper wires, nominal diameter up to 0.30mm	Felts
POLI W E200/32 PAI	32 ± 1 %	600 – 800 cps	Circular copper wires, nominal diameter 1.32mm. Degree 1 and 2	Dies
POLI W E200/38 PAI	38 ± 1%	1600 – 2200 cps	Circular copper wires, nominal diameter up to 5.0mm and rectangular wires	DIES

Weldable (SD) Polyesterimide Enamel (PEI)

Recommended for application on weldable wires of high thermal class. Presents excellent welding properties indicated to manufactures of coils for small motors and coiled products in general.

Product	% Solids	Brookfield Viscosity	Application	Application System
POLI W E180/30 PEI-SD	29 ± 1 %	90 – 110 cps	Circular copper wires, nominal diameter 0.03 – 1.00mm. Degree 1 and 2	Felts
POLI W E180/37 PEI-SD	37 ± 1 %	400 – 500 cps	Circular copper wires, nominal diameter 0.03 – 2.00mm. Degree 1 and 2	Dies

Modified selfbonding epoxy enamel

Recommended for application on rectangulars wires with PVF base for manufacturing transposed cables working as a selfbonding.

Pr	roduct	% Solids	Brookfield Viscosity	Application	Application System
BREESY*	120/26 Epoxy	28 ± 2 %	2500 - 3100 cps	Rectangular wires	Dies

^{*} BREESY line product - Without cresol.

Polyimide enamel

Recommended for application on thermal class 240°C circular copper wires. Provides high thermal resistance with high mechanical and electrical resistance even when submeitted to high temperatures.

Product	% Solids	Brookfield Viscosity	Application	Application System
POLI W 240/12 PI	12 ± 1%	950 - 1500 cps	Circular copper wires	Dies

Esmalte Poliamida

Recommended as a topcoat on polyester or Polyesterimide to increase mechanical resistance and reduce friction, as well as an adhesion promoter (primer) on speakers and thick circular and rectangular wires.

Product	% Solids	Brookfield Viscosity	Application	Application System
POLI W PA/8	8 ± 1%	120 - 170 cps	Fine wires, nominal diameter up to 0.50mm	Felts
POLI W PA/12	11 ± 13%	-	Speakers	Dies and Brush
POLI W PA/16	15 ± 1%	7000 - 10000 cps	Thick circular wires and rectangular	Dies

Paraffin lubricants for enameled wires

Recommended for application on enameled wires, increasing the resistance to friction in the electric coiled products production.

Product	% Solids
Lube W 10 (PARAFFIN)	0,30 - 0,70%
Lube W 15 (PARAFFIN)	0.70 – 1.30%
Lube W 15 (I AIIAI I IIV)	0,70 - 1,50 /0
Lube W 17 (PARAFFIN)	1,30 – 1,70%

Ester lubricants for hermetic enameled wires

Recommended for application on enameled wires, increasing the resistance to friction in the electric coiled products production in hermetic motors where refrigerating gas 134th used.

Product	% Solids
Lube W E 10 (ESTER)	1%
Lube W E 15 (ESTER)	1,5%



UL is an independent American certification laboratory with over a century of experience, serving as a global reference in the electrical market. UL certification provides customers with the security of purchasing a product that undergoes periodic inspections and quality assurance from an international body, ensuring high-tech, high-quality products for the electrical insulation market.

The scope of WEG Group solutions is not limited to the products and solutions presented in this brochure.

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