

ELAN-Guard[®] UPM 23 Unsaturated Polyester Emulsion

Performance without compromise. Safety without question.

The industry's first polyester emulsion to combine high dielectric strength with ultra-low VOCs, enabling customers to meet strict environmental standards without sacrificing performance.

Product Overview

ELAN-Guard[®] UPM 23 is a single-component, waterborne unsaturated polyester emulsion designed for the general-purpose impregnation of motor and transformer windings. This next-generation formulation delivers outstanding performance, easy handling, and reduced environmental impact.

ELAN-Guard[®] UPM 23 delivers bond strength of **30 lbs at 25°C** and **12 lbs at 150°C** on MW35 wire, combining mechanical durability with thermal performance.

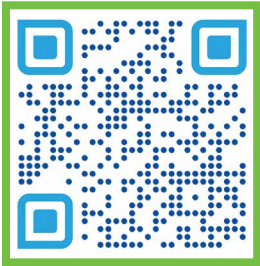


Features & Benefits

- Ultra-Low VOC (~0.5 lbs/gal)
- High Dielectric Strength (up to 5000 volts/mil)
- Excellent Tank Stability
- Formulated Without Hazardous Air Pollutants (HAPs)
- Easy Cleanup & No Solvent Odor
- High Bond Strength at Ambient & Elevated Temps
- Low Viscosity for Deep Penetration
- Cost-Competitive & Easy to Use
- Meets UL 1446 Class 180

Product Comparisons

	ELAN-Guard® UPM 23 Unsaturated Polyester Emulsion	Isonel® 31-398 Alkyd Phenolic	Pedigree® 60-60VT Unsaturated Polyester & Vinyl Toluene	Pedigree® 100-70-70 Alkyd Polyester & Solvent & Water
Viscosity (cP)	400-2000	250-350	200-300	1500-3500
Non-Volatile Content (%)	58-64	46-50	100	67-70
Bonds (lbs) 25°C/150°C	30/12	45/4	24/4	28/5
Dielectric Strength/24h in water (Volts/mil)	4500/4500	4200/3100	3800/3000	3300/3100
VOC (lbs/gal)	0.5	4.2	2.6	2.9
Refrigerant Resistant	Yes	No	No	No



Want to Learn More or Get a Sample?

SCAN THE QR CODE to view the full product page, access technical resources, or connect with an ELANTAS representative.

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