

Resin

Permafil® 3255

- ▶ General purpose unsaturated polyester resin
- ▶ Very low viscosity
- ▶ Excellent electrical properties
- ▶ VPI impregnation of aluminum and iron castings
- ▶ VPI impregnation of carbon products

General description

Permafil® 3255 is a clear liquid unsaturated polyester resin which cures to a tough, rigid, infusible solid when catalyzed. It's low viscosity permits complete penetration of porous structures and being 100% solid helps eliminate the potential problem of voids which can occur with conventional solvent-borne varnishes.

Application

Permafil® 3255 resin is suggested for use as a general purpose varnish for laminating, insulation, and bonding all types of coil structures. It has been found to be particularly suited to sealing of porous metal or carbon castings. It possesses good electrical properties at room temperature and at elevated temperature.

Storage Conditions

Permafil® 3255 resin can be expected to stay within its specified gel time limits when stored precatalyzed for three months at 77°F (25°C) or six months at 45°F (7.2°C). Aeration of the catalyzed resin will enhance stability. Uncatalyzed resin should be kept away from sources of direct heat or sunlight.

Order Data

Permafil® 3255 resin is available in 1 gallon and 55 gallon containers. Catalyst for this resin is sold separately. For the name of your distributor or for more information on this product, contact our Customer Service department, (518) 344-7100.

		Value	Test norm
Flash point	°F (°C)	≥200 (93.3)	Pensky-Martens Closed Cup
Specific Gravity 77°F(25°C)		1.2	
Viscosity (Brookfield) 77°F (25°C)	cps	350 ± 30	
Gel time at 100°C	minutes	14 (0.8% TBP) ± 3	
Flexural strength	PSI	13,700	
Solids content	%	100	
Thermal resistance	°F (°C)	175 (79.4) constant, 392 (200) intermittent	
Thermal conductivity		4 x 10 ⁻⁴ cal/sec/cm(2)/C /cm	
Coefficient of thermal expansion		10 x 10 ⁻⁵	
Dielectric constant; 60Hz, 77°F (25°C), 50% R.H.		4.3	
Insulation resistance at 23°C	Ohm	8.7x10 ¹⁴	
Dissipation factor @ 25°C tan delta	%	1.2	

Health and safety

Material Safety Data Sheets defining the known hazards and describing safety precautions appropriate for this product are available upon request from Von Roll USA, Inc., 200 Von Roll Drive, Schenectady, New York 12306 (518) 344-7100. Similar information sheets for solvents and other chemicals used with this product may be obtained from the appropriate supplier and used accordingly.

Specifications

The properties shown above are typical values only, and should not be used as a basis for preparing specifications. Contact our Customer Service department, (518) 344-7100 for assistance in preparation of specifications for your specific system application.

The product properties set forth in this data sheet are based on the results of testing of typical material produced by the affiliated companies of Von Roll Holding Ltd. (underneath referred as Von Roll). Some variation in product properties is typical. Comments or suggestions relating to any subject other than product properties are offered only to call the end-user's or other person's attention to considerations which may be relevant in the independent determination of the use and/or manner of use of product. Von Roll does not claim or warrant that the use of its product will have the results described in this data sheet or that the information provided is complete, accurate or useful. The user should test the product to determine its properties and its suitability for the intended use. Von Roll expressly disclaims any liability for any damage, harm, injury, cost or expense to any person resulting directly or indirectly from that person's reliance on any information contained in this data sheet. Nothing contained in this data sheet constitutes representation or warranty as to any matter whatsoever. Von Roll makes no warranties whatsoever in this data sheet, expressed or implied, including any implied warranty or fitness for a particular use or purpose. Von Roll shall in no event be liable for incidental, exemplary, punitive or consequential damages.