

mica tapes

Mica Mat® 2249XS

- ▶ Low Binder
- ▶ Absorbs and retains VPI resins
- ▶ Flexible for Ease of application
- ▶ Excellent electrical properties

General description

Mica Mat® 2249XS is a low binder, 6.3 mil, 2-ply VPI tape with 4 mil calcined mica paper and a 2 mil glass backer. When used with the proper resin, Mica Mat® 2249XS exhibits excellent electrical characteristics over a wide temperature range.

Application

Mica Mat® 2249XS tape is designed for use as ground insulation on low and medium voltage coils. This tape is compatible with a number of commercially available solventless epoxy and polyester resins. It is designed for VPI impregnation and, when used with the proper resin, exhibits excellent electrical characteristics over a wide temperature range.

Processing

Mica Mat® 2249XS tape may be applied by either hand or machine taping. Coils should be processed per the cure cycle suggested for the particular resin or varnish chosen for coil treatment.

Order Data

Mica Mat® 2249XS tape is available as slit tape or wrapper, 3/4 to 38 inches in width (1.9 to 91.44 cm).

Shelf life

Mica Mat® 2249XS tape should exhibit no shelf life limitations when stored for up to 1 year under normal room temperature conditions of 77°F (25°C).

Availability

This product is available from Von Roll USA, Inc. or from authorized Von Roll distributors. For the name of your distributor or for more information on this product, contact our Customer Service department, (518) 344-7100.

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.

	Value	Test norm
Dimensions		
Glass fabric	mils (mm) 2.0 (0.05)	
Mica Mat	mils (mm) 4.0 (0.102)	
Total thickness	mils (mm) 6.3 (0.160)	ASTM D-374C
Weight		
Glass fabric weight	lbs/syd (g/m ²) 0.155 (84)	
Mica Mat weight	lbs/syd (g/m ²) 0.282 (153)	
Total weight	lbs/syd (g/m ²) 0.502 (272)	
Resin content	% 13	
Bonding agent	Epoxy	
Coverage	yd ² /lb (m ² /kg) 1.99 (0.0037)	
Mechanical properties		
Tensile strength	lb/in (N/cm), avg. 90 (157)	ASTM D-828
Stiffness	mg 900	Gurley
Electrical properties		
Dielectric strength, Short Time	V/mil(kV/m) >350 (13.8)	ASTM D-149 m)

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.

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.