

3848 Epoxy Glass Tube

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1. GENERAL INFORMATION

3848 consists of glass fabric impregnated with modified epoxy resin rolled, pressed and formed under heat and pressure. 3848 is intended for thermal insulation when temperature is below -196°C. It features good mechanical strength and lower thermal conductivity.

This product is specifically designed for application in structural parts of cryogenic equipment, air separation equipment and tank wagons.

2. TECHNICAL VALUES

Type			D3848		Z3848		G3848	
Tested Temperature [°C]			20	-196	20	-196	20	-196
Compressive Strength	MD	[MPa]	≥180	≥250	≥230	≥280	≥230	≥280
	CD		≥250	≥280	≥280	≥350	≥280	≥350
Tensile Strength	MD	[MPa]	≥180	≥250	≥210	≥280	≥230	≥280
Impact Toughness	MD	[J/cm2]	≥18	≥22	≥20	≥25	≥20	≥25
Shear Strength	MD	[MPa]	≥25	≥25	≥30	≥30	≥35	≥35
Coefficient of Thermal Conductivity [W/m*K]			≤0.50	≤0.40	≤0.50	≤0.40	≤0.50	≤0.40
Linear Expansion Coefficient	MD	[10 ⁻⁶ /K]	≥180	≥250	≥230	≥280	≥230	≥280
	CD		≥250	≥280	≥280	≥350	≥280	≥350
Temperature Class [°C]			155		130		180	

3. STORAGE AND AVAILABILITY

- Shelf life is 18 months from EXW date in original packing and under normal conditions (room temperature, 50% relative humidity)
- Standard widths are 420, 820 and 950mm
- Other widths available on request
- Available on thicknesses from 1,5mm upwards

4. APPEARANCE

Smooth surface, no bubbles, no wrinkles, no cracks, no scratches and overheating traces. Slight wrinkles on the inner wall are allowed. Both ends are evenly trimmed. Slight cracks at the end surface are allowed when the wall is thicker than 13mm.

5. NOTES

All statements, technical information, and recommendations contained in this document are based on tests or experience that we believe are reliable. However, many factors beyond our control can affect the use and performance of a product in a particular application, including the conditions under which the product is used and the time and environmental conditions in which the product is expected to perform. Since these factors are uniquely within the user's knowledge and control, it is essential that the user evaluates the product to determine whether it is fit for a particular purpose and suitable for the user's method or application.

Values presented have been determined by standard test methods and are average values not meant to be used for specification purposes. Tolerances on thickness and area weight are +/- 15% if not stated differently.

All questions of warranty and liability relating to our products are governed by the terms of the respective sale subject, where applicable, to the prevailing law.

6. VERSIONING

Rev. 2 dated 29/07/2026