



Technical Data Sheet

Fiberglass Mesh WMZ-ZR-130

Technical Specifications

No.	Characterizations	Unit	Specification	Acceptance Criteria	Test Method
1	Type Glass	-	AR-glass	-	-
2	Color	-	Red	-	-
3	Mesh Size	mm	5x5	≥ 5	-
4	Length	M	50	-	-
5	Width	cm	20-25-33-40-50-60-100 (Up to Customer Order)	-	-
6	Mass per Unit Area	gr/m ²	≥ 130	≥ 100	ISO 3374
7	Breaking Strength (Before Alkali)	N/50 mm MPa	≥ 1600 ≥ 1280	- ≥ 1000	ASTM E 2098
8	Breaking Strength (After Alkali)	N/50 mm MPa	≥ 1350 ≥ 1080	- ≥ 1000	ASTM E 2098
9	Zirconia Content	%	≥ 16	≥ 16	ASTM E 1621
10	Alkali Resistance (28-Day Test)	%	83	-	-

Application

Zirconia-Enhanced Fiberglass mesh is a woven product made from glass fibers containing zirconia (ZrO_2), designed for industrial and construction applications. With superior resistance to alkali and corrosion, this mesh is ideal for reinforcing non-structural components in construction projects. Specifically engineered for cementitious environments it plays a crucial role as a primary component of Fabric-Reinforced Cementitious Matrix (FRCM) composites. These composites are widely used for strengthening and retrofitting concrete and masonry structures. The mesh ensures durability and long-term performance by maintaining its integrity in the harsh alkaline conditions of cement-based systems, making it an indispensable solution for advanced reinforcement applications. Moreover, it is also suitable for gypsum-based environments.

Advantages

- High alkali and corrosion resistance for long-term durability
- Contains zirconia (ZrO_2) for chemical stability in cement environments.
- Strong adhesion to cement for effective reinforcement.
- Key component of Fabric-Reinforced Cementitious Matrix (FRCM) composites.
- Lightweight, easy to handle, and install.
- Ideal for industrial and construction applications.

Storage

The glass-fiber fabric should be stored in its original packaging in a dry environment. To ensure optimal preservation, we recommend protecting the packaging from direct sunlight. The ideal storage temperature ranges from $-10^{\circ}C$ to $50^{\circ}C$, with a recommended relative humidity of up to 50%.

Packaging

- 50 m² Cartons

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