

DEF1700HT Heat Treated Fabric

Description

Heat-treated E-glass fabric, with its organic sizing burned off, is used for high-temperature insulation, thermal barriers, and personal protective equipment like welding blankets, curtains, and fireproof materials. Offering excellent heat/flame resistance for industrial applications where smoke is a concern, such as furnace insulation, expansion joints, and gaskets



Applications

- **Welding & Fire Protection** (Welding blankets, fire curtains, and firewalls to protect against sparks, heat, and flames)
- **Industrial Insulation** (Pipe & furnace insulation, thermal reflectors, and machinery covers due to its resistance to extreme heat (up to 550-700°C))
- **Protective Gear** (Personal protective equipment (PPE) like aprons, cuffs, and suits for workers in high-heat environments)
- **Expansion Joints** (Used in compensators and expansion joints in industrial systems)
- **Gaskets** (High-temperature gaskets for sealing applications.)
- **Thermal Covers** - Exhaust, Muffler, Turbo jackets etc.

Benefits of Heat Treatment

- **Smoke-Free:** Removes organic sizing, preventing smoke during initial use.
- **Improved Performance:** Offers better abrasion resistance and direct flame resistance after treatment.
- **Versatility:** Can be further coated (e.g., with silicone or vermiculite) for enhanced properties like water resistance or chemical stability

Technical Data

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1	Weave		12HS Satin	Testing Method
2	Yarn	Warp	EC9 136 1x4	ISO 4602
	Texturized	Weft	EC9 136 1x4	ISO 4602
3	Width		100 cm	DIN EN 1773
			120 cm	DIN EN 1773
			150 cm	
			180cm	
4	Cloth Weight		1700 g/m ²	DIN EN 12127
5	Treatment		Caramelised (heat treated)	-
6	Thickness		1.7mm	DIN EN ISO 5084
7	Thread Count	Warp	18 per cm	DIN EN 1049-2
		Weft	13 per cm	DIN EN 1049-2
8	Tensile Strength(min)	Warp	10,000 N/5cm	EN ISO 13934-1
		Weft	9000 N/5cm	EN ISO 13934-1
9	Service Temperature		500°C	-

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