

TECHNICAL DATA SHEET

DEF640HTAL-1520 Aluminium Foil Faced

Description

Aluminum foil-faced E-glass coated fabrics are composite materials combining reflective, heat-resistant, and flame-retardant properties, designed for high-temperature insulation, radiant heat shields, and protective covering. These materials are heavily used in industrial, construction, and safety sectors to protect personnel and equipment from heat, sparks, and chemical hazards. These fabrics provide good properties of flexibility, durability, radiant heat and light reflection as well as vapor protection.



Applications

- **Industrial Heat Protection & Insulation:** Used for welding blankets, fire curtains, safety clothing, and splash guards for molten metal or chemicals.
- **Pipe and Duct Lagging:** Provides thermal insulation and vapor barriers for HVAC systems, steam pipelines, and oil transportation lines.
- **Expansion Joints & Flexible Connectors:** Used in industrial, power generation, and chemical environments to handle thermal expansion and vibration.
- **Removable Insulation Jackets:** Ideal for covering turbines, valves, and boilers to reduce energy loss.
- **Construction & Building:** Used for vapor barriers under roof decking, in walls, or in floor heating, offering both radiant heat reflection and moisture resistance.
- **Packing Material:** Protects large equipment from environmental damage during shipping

BASE FABRIC		Base fabric style No. TGF580	
	(Metric)	(English)	Test Methods
Weave	Plain	Plain	
Yarn			
Warp	ET9 430 tex	ETG 11.6	
Weft	ET9 430 tex	ETG 11.6	
Construction			
Warp	8 ± 0.8 ends/cm	20 ± 2 ends/inch	
Weft	5.7 ± 0.6 ends/cm	14 ± 1 ends/inch	
Weight	580 ± 30 g/m2	17 ± 0.9 oz/yd2	ASTM D3776-96
Thickness	0.70 ± 0.05 mm	0.028 ± 0.002 inch	ASTM D1777-96
COATED FABRIC		Coating style No. AL122-6005	
Coating	Aluminum foil (22 microns) laminated on one side		
Weight	640 ± 30 g/m2	18.82 ± 0.88 oz/yd2	ASTM D3776-96
Thickness	0.75 ± 0.04 mm	0.03 ± 0.0002 inch	ASTM D1777-96
Color	Silver		
Flame resistance	Non-combustible		
Working temp	Glass fabric up to 550C (1000F)		
	Aluminum foil up to 140C (300F)		