



TUFFCOAT 2.0

1 DESCRIPTION

Thermal Tech & Temp's Tuffcoat 2.0 material boasts a substantial silicone rubber coating on fiberglass fabric, demonstrating resilience against repeated exposures to molten steel, molten aluminum, and molten glass, withstanding temperatures up to 3000°F (1650°C) in a short duration. The robust layer of iron oxide red silicone rubber effectively repels molten metal splash, minimizing heat transfer. In the presence of flames, the silicone rubber undergoes a transformative process, creating a protective SiO₂ refractory layer.

2 APPLICATIONS

Thermal Tech & Temp's Tuffcoat 2.0 is a go-to solution for protecting hoses and cables in a range of industries such as steel mills, aluminum smelting plants, offshore drilling rigs, foundries, and glass manufacturing facilities. This coating is extremely versatile, allowing you to bundle multiple hoses and cables while providing top-notch abrasion resistance.

3 ADVANTAGES

Our Tuffcoat material is designed with top-notch high-temperature and chemical resistance, enhanced by an outstanding modulus of elasticity. This special blend enables the fabric to easily stretch and expand over fittings and connectors. The outer cover exhibits impressive resistance to a variety of industrial chemicals and hydraulic oils. Additionally, the specially formulated liquid silicone rubber prevents fraying and the absorption of flammable oils or contaminants into exposed glass fibers. Noteworthy features include excellent resistance to molten splash, flexibility, and resilience against water and oil. It also demonstrates robust performance in terms of flame and abrasion resistance.

4 PROPERTY DATA

Characteristics:	English Values:	Metric Values:
Weight	85.5 oz/yd ²	2900 g/m ²
Thickness	0.08 in	2.0 mm
Continuous Operating Temperature	500°F	260°C
Max Short-Term Exposure	3000°F	1650°C

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