

TUFF TEMP CORPORATION

– *HEAT RESISTANT TEXTILES AND BELTING* –

928 Jaymor Road Suite C-150 • Southampton, PA 18966

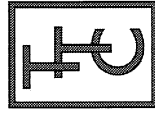
Phone: (215) 322-9670 • www.tufftemp.com • Fax: (215) 322-3905

Tuff Temp Woven Materials

Chemical, Thermal and Physical Properties

Temperature Resistance	Up to 1000° Fahrenheit / 540° Celsius Continuous Up to 1400° Fahrenheit / 760° Celsius Intermittent
Thermal Conductivity	0.04 Btu. in/(h.ft ² °F)
Abrasion Resistance	Excellent
Cut Resistance	Good
Chemical Resistance	Good resistance to acid and alkalis Excellent solvent resistance Degraded by strong mineral acids and bases Excellent resistance to mildew and aging

Worlds Premier Manufacturer & Supplier of Heat Resistant Textile Products Since 1974



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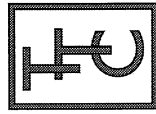
HIGH TEMP & ABRASION RESISTANT TUFF TEMP BELTING

COMPARATIVE PROPERTIES/USAGE

Pattern #	Description	Typical Use	Properties (Nominal)			
			Thickness (in)	Weight (lbs/ft/1" Width)	Tensile (lbs/1" Width)	Stretch* (%)
						Min Pulley Dia (in)
76-444	Heavy Weight Herringbone Cloth with Woven Edges (available in widths up to 18")	Roller Covers, Tong Wraps, Abrasion Resistant Heat Curtains, Pad, Tubing Wraps	.06 (1.5 mm)	.02	600	N/A
75-433	Light Weight 2 Ply Belting	Light Weight Conveyors, Guide Rail Covers – Roller Covering, Tubing Draw Roll Covers – Wear Pads.	.13 (3.3 mm)	.03	1500	2.8
76-451	Mid Weight 2 Ply Belting	Light Weight Glass Conveyors, Pads, Aluminum Extrusion Belts	.25 (6.4 mm)	.048	2250	1.7
78-513	Mid Weight "Soft" Construction 2 Ply Belting	Mid to Heavy Weight Glass Conveyors Pads & Catchers – Soft, bulky construction for maximum ware contact. Aluminum Extrusion Belts	.38 (9.7 mm)	.08	3500	3.5
						3 (76 mm)

* Laboratory data based on 12" wide belting material at 300 lbs load. All values shown representative of Tuff Temp's "Water Stretched" treatment.

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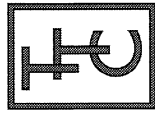
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BRASS REINFORCED HIGH TEMP & ABRASION RESISTANT TUFF TEMP BELTING COMPARATIVE PROPERTIES/USAGE:

Pattern #	Description	Typical Use	Properties (Nominal)				
			Thickness (in)	Weight (lbs/ft/1" Width)	Tensile (lbs/1" Width)	Stretch* (%)	Min Pulley Dia (in)
87-810	Mid Weight 2 Ply Belting with 7 Mil Brass Twisted with Each Yarn	Light to Mid Weight High Temperature Glass Conveyors - Ideal for Lamp Parts, Bulbs, and Commercial & Automotive Lighting	.25 (6.4 mm)	.06	2450	1.7	3 (76 mm)
88-872	Mid Weight High Density 3 Ply Kevlar & 7 Mil Brass Blended Belting	Conveyor Belting for Mid to Heavy Weight Glass Ware (e.g. Opticalware & Ophthalmicware, Various Container Lines, etc.). Also for use as Fabricated Pads, Disks, Expansion Joints, Oven / Furnace Door Seals - For use where enhanced abrasion & cut resistant properties are needed.	.25 (6.4 mm)	.07	3250	1.5	3 (76 mm)
89-910 - NWF**	Same as #88-872 except no Brass is contained in the "face" or top layer	Same as #88-872	.25 (6.4 mm)	.07	3250	1.5	3 (76 mm)
89-951	Heavy Weight Ultra High Density 4 Ply Kevlar & 7 Mil Brass Blended belting	Highest Density Belting - For Conveying the Hottest, Heaviest Glassware (e.g. TV Panel Glass & Funnel Glass, Heavier and Hotter Consumerware, Tableware, & Ovenware items, etc.). Available in Custom Fabricated Pads with the Most Durable Wear Properties	.30 (7.6 mm)	.095	4250	1.3	4 (100 mm)
90-974 - NWF**	Same as #89-951, except no Brass in the top 2 face layers	Same as #89-951 Also available as Pattern # 87-427 with No Wire.	.30 (7.6 mm)	.09	4250	1.3	4 (100 mm)

*Laboratory data based on 12" wide belting material at 300 lbs load. All values shown representative of Tuff Temp's "Water Stretched" Treatment.

**NWF - No Wire Face: The fineness of our Brass, and the method of uniformly commingling the metal throughout our belting fabrics, decreases the possibility of glass checking. Our NWF patterns were developed for glass products and processes that have sensitivity to any metal contact. All NWF materials are shipped with the Brass / Kevlar layers clearly identified for ease of installation.



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ULTRA HIGH TEMP & ABRASION RESISTANT “COMBO BELTING”

COMPARATIVE PROPERTIES/USAGE:

Pattern #	Description	Typical Use	Properties (Nominal)			
			Thickness (in)	Weight (lbs/ft/1” Width)	Tensile (lbs/1” Width)	Stretch* (%)
87-493	High-Density, 4 Ply Blend of Multiple Specialty High Temperature Resistant Fibers.	The Hottest, Most Demanding Applications such as Ovenware & Tableware	.293 (7.5 mm)	.087	4000	1.5
						4 (100 mm)

*Laboratory data based on 12” wide belting material at 300 lbs load. All values shown representative of Tuff Temp’s “Water Stretched” Treatment.