

Gasketing & Sealing

HIGH TEMPERATURE ROPES AND TAPES



Newtex offers a specialized line of tapes and ropes – including industrial and premium grade tape, tadpole tape, bolt hole tape, twisted rope, and braided rope – for use in high temperature gasketing and packing applications. Made from high-performance, inorganic Zetex® and ZetexPlus®, these products are an excellent replacement for asbestos and can withstand temperatures as high as 1090°C. They are also conformable and durable, resist most acids and alkalis, and won't shrink, stretch, or unravel. We offer a range of fabrics, coatings, thicknesses, and widths, and can also develop custom solutions.

Applications: Boiler/Tadpole Gaskets, Flange Gaskets, Bubble Tray Gaskets, Oven and Furnace Door Seals, High Temp Joint Packing, Expansion Joint Packing, Hot Top Seals, Mold Seals, Tube Seals, Pipe Wrap

Zetex® and ZetexPlus® Tapes

High temperature gasketing

Our tapes are woven from Zetex or ZetexPlus to support temperatures to 540°C or 1090°C and are ideal for high temperature, low pressure gasketing and sealing applications. **Premium Grade Tape** is tightly woven from 6 micron filaments and a finer yarn to enhance strength, flexibility, abrasion resistance, and insulation while reducing bolt pull-through. **Commercial Grade Tape** is woven from 9 micron filaments to provide an effective, economical alternative. **Bolt Hole Tape** is woven without the warp yarns in the center to support bolt insertion such as in flange gasketing. **Wire-Reinforced Tape** adds strength and stability for high temperatures. **Tadpole Tape** is ideal when limited bolt force is available - the "Tail" can be bolted to the door frame while the "Bulb" provides an effective door seal.

Typical applications: Flange Gasketing, Boiler Gasketing/Tadpole Gasketing, Oven and Furnace Door Sealing, Bubble Tray Gasketing, Steam Pipe Wrapping

Zetex® and ZetexPlus® Ropes

High temperature packing and sealing

Our ropes are manufactured from Zetex or ZetexPlus to support temperatures to 540°C or 1090°C and are used in high temperature sealing and packing applications such as those involving hot air, steam, or gases. **Twisted rope** is made from Zetex or ZetexPlus yarn and is an economical, conformable product used for sealing boilers and oven and furnace doors, including those with uneven surfaces. **Braided rope** is stronger, denser, smoother, and more stable and is used in packing applications that require greater resistance to compression and mechanical wear. **Square braided rope** is similar in construction but made to support square channels and grooves.

Typical applications: Furnace Door Insulation and Seals, Coke Oven Door Seals, Expansion Joint Packing, Hot Top Seals, Mold Seals, Tube Seals, High Temperature Joint Packing, Bulb Material for Tadpole Tape

TAPE FABRIC GRADES

Premium Grade

Made from 6 micron filaments, finer yarns, and a tighter weave to enhance strength, flexibility, abrasion resistance, and insulation while reducing bolt pull-through.

Commercial Grade

Made from 9 micron filaments, coarser yarns, and a more open weave to provide an economical yet highly effective high temperature gasket or seal.

COATINGS AND FINISHES

- Silicone: For resistance to abrasion, fluids, and chemicals.
- Heat Cleaned, Color Dyed, or Regular Treatment: For softer hand and feel, reducing smoke generation, airborne fibers, and unraveling.
- Pressure-Sensitive Adhesive: For temporary positioning, such as during gasket installation.
- Aluminum Foil: For heat reflection and chemical and moisture resistance.

Tape Specifications

Tape	Grade	Thickness (mm)	Available Widths (mm)											
			13	25	38	51	64	76	102	152	203	254	305	
550	Premium	0.8	■	■	■	■	■	■	■	■	■			
1000	Premium	1.6	■	■	■	■	■	■	■	■	■	■	■	■
1000	Commercial	1.6	■	■	■	■	■	■	■	■	■	■		
2500	Premium	3.2	■	■	■	■	■	■	■	■	■			
2500	Commercial	3.2	■	■	■	■	■	■	■	■	■			
3900	Premium	6.4		■	■	■	■	■	■	■	■			
Bolt Hole Tape														
700	Premium	1.6		■	■	■	■	■	■					
1350	Premium	3.2		■	■	■	■	■	■	■				
2500	Commercial	4.8		■	■	■	■	■	■					
3900	Premium	6.4		■	■	■	■	■	■	■				
Wire-Reinforced Tape														
1400	Commercial	2.4		■	■	■		■						
Tadpole Tape		Bulb Diameter (mm)												
	Commercial	9.5		■	■	■	■	■						
	Commercial	12.7		■	■	■	■	■						
	Commercial	15.9		■	■	■	■	■						
	Commercial	19.1		■	■	■	■	■						
	Commercial	25.4		■	■	■	■	■						

Most tapes are sold in 30 meter spools. All styles and sizes are available in Zetex or ZetexPlus.

Rope Specifications

Table shows rope density in m/kg.

Style	Available Diameters (mm)											
	6	10	13	16	19	22	25	32	38	51	64	76
Twisted Rope	34.00	25.84	13.95	8.13	4.48	3.84	3.04	2.05	1.33	0.72	N/A	0.75
Braided Rope	33.33	17.01	11.36	6.99	4.77	2.93	2.64	1.55	0.99	0.53	0.40	0.25
Square Braided Rope	17.33	12.24	6.00	4.43	3.41	2.69	2.29	1.39	0.96	0.53	0.27	N/A

Ropes are sold in 11 kilogram spools. All styles and sizes are available in Zetex or ZetexPlus.

Note: Temperatures are rounded to the nearest 10°C, widths and diameters to the nearest millimeter, thicknesses to the nearest tenth of a millimeter, and densities to the nearest hundredth meters/kilogram.



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As the most trusted name in the industry for over 25 years, Newtex is the pioneer and leading global producer of high temperature textiles for thermal management and fire protection. Our comprehensive product line includes the original Zetex® and ZetexPlus® brand names as well as heat and fire resistant fabrics, insulation fabrics, tapes, ropes, tubings, and safety clothing, which support a broad range of applications that include fire safety, welding protection, insulation systems, expansion joints, and gasketing.