

REFRASIL® slit and woven tapes



REFRASIL woven, wide woven, and slit tapes proven in numerous applications involving thermal insulation, energy savings, safety, and electrical insulation.

With a long service life and greater thermal performance than other textiles, REFRASIL tapes lower your maintenance cost and provide high-performance protection. In addition, REFRASIL's excellent dielectric strength makes it an outstanding high-temperature electrical insulator, while its chemical properties contribute to its resistance to oxidation and attack by most corrosive solutions.

Standard REFRASIL tapes are high-silica (>96% SiO₂B₂) products intended for high-temperature applications with continuous service up to 982 °C (1800 °F). Woven tape is available in "pre-shrunk" form, which is fired at 982 °C (1800 °F) to reduce any further shrinkage in the service applications. Wide woven tape in thicknesses of 1.52 mm and 3.18 mm [0.060" and 0.125"] is produced as standard REFRASIL and is subject to shrinkage when exposed to sustained temperatures above 982 °C (1800 °F).

Irish REFRASIL extends the stability and flexibility characteristics of standard REFRASIL slit tapes to 1260 °C (2300 °F). High excursion temperatures or "spikes" over 1093 °C (2000 °F) may cause slight embrittlement, but the REFRASIL continues to insulate and provide outstanding thermal protection.

Typical applications

- Mop curtains for continuous belt furnaces
- Electrical lead wire insulation
- Welding blanket edge and seam binding
- Cooling hose wrap insulation
- Instrumentation wire insulation
- Power cable insulation

Packaging

REFRASIL tape products are packaged as 15 m or 30 m [50 or 100 lineal feet] spools depending on type and thickness.

Availability

REFRASIL's textiles are available in a variety of product forms to suit each customer's specific needs – cloth, tape, sleeving, rope, yarn, cordage, batt, and bulk fiber. All textiles can be purchased through a nationwide network of stocking distributors.

Material data of REFRASIL® wide woven tapes

Typical properties	Units	UT100-41 ¹⁾	UT100-42 ¹⁾	UT100-44 ¹⁾	UT100-46 ¹⁾	UT100-81 ²⁾	UT100-82 ²⁾	UT100-84 ²⁾	UT100-86 ²⁾
Nominal width	mm/in	25.4/1	50.8/2	101.6/4	152.4/6	25.4/1	50.8/2	101.6/4	152.4/6
Nominal thickness	mm/in	1.52/0.060	1.52/0.060	1.52/0.060	1.52/0.060	3.18/0.125	3.18/0.125	3.18/0.125	3.18/0.125

¹⁾ Standard tape: nominal tape roll size 30 m ± 10% (100 LF ± 10%)

²⁾ Standard tape: nominal tape roll size 15 m ± 10% (50 LF ± 10%)

Material data of REFRASIL® standard slit tapes¹⁾

Typical properties	Units	UT48-2	UT48-4	UT96-2	UT96-4
Nominal width	mm/in	50.8/2	101.6/4	50.8/2	101.6/4
Nominal thickness	mm/in	0.89/0.035	0.89/0.035	1.40/0.055	1.40/0.055

¹⁾ w/adhesive

Material data of REFRASIL® abrasive resistant tapes²⁾

Typical properties	Units	AR48-2	AR48-4	AR96-2	AR96-4
Nominal width	mm/in	50.8/2	101.6/4	50.8/2	101.6/4
Nominal thickness	mm/in	0.81/0.032	0.81/0.032	1.32/0.052	1.32/0.052

¹⁾ sealed edges

Material data of REFRASIL® Irish slit tapes

Typical properties	Units	2221-48-2	2221-48-4	2221-96-2	2221-96-4
Nominal width	mm/in	50.8/2	101.6/4	50.8/2	101.6/4
Nominal thickness	mm/in	0.71/0.028	0.71/0.028	1.47/0.058	1.47/0.058

Available in rolls 3 m ± 10% (100 LF ± 10%). No roll contains more than 2 pieces with single pieces not less than 3 m (10 LF).

Slit tapes are produced from standard UC series, AR series, and Irish REFRASIL cloth. A standard 46 m (50 LY) roll can be custom slit to any specified width for a special handling charge. Stock widths are 50.8 mm and 101.6 mm (2" and 4").

Standard tape is slit from UC series cloth coated one side with pressure-sensitive adhesive protected by a release paper cover. The adhesive provides an aid to applying the tape in various field and shop conditions. Abrasion resistant AR series and Irish slit tape have no adhesive; the edges are sealed with a refractory coating to prevent unraveling.

