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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

²⁾ 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.

* registered trademark of HITCO Carbon Composites Inc.

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These data and information are based on carefully conducted tests and experiments and shall inform the user. They should not be regarded as a specification or guarantee for the suitability of certain applications. Users should at any rate ensure and confirm the suitability of the product for the intended purpose by carrying out their own tests and research.



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