

ZRCI Refractory Sheet Types RS-Cloth and RS-Tape are fiber reinforced alumina composites in a highly flexible form. They are received dried, when wetted with water or AL-HARD Hardener they become extremely flexible. They can be wrapped into many simple or complex shapes and will stick to themselves. When dried they become an extremely hard, strong, self-supporting composite structures. RS-Putty can be used to burnish any surface and provide a very smooth hard finish. After a low temperature bake-out of 300°C (570°F) RS-Cloth and Tape are unaffected by moisture.

These materials offer the strength, durability, flexibility and versatility required by many high temperature applications up to 1300°C (2373°F). Their high alumina content makes Refractory Sheet RS-Cloth and RS-Tape highly resistant to many environments including Hot Glass handling, molten aluminum and chemical and petroleum processing. After they are heat cured, they are not affected by water as well as many types of fuel oils. When hardened with AL-HARD Refractory Sheet RS-Cloth and RS-Tape become “rock hard” for greater strength.



SUGGESTED USES

- High temperature
- High strength gasketing
- Replacement for asbestos textiles in induction glass melting furnaces
- High temperature pipe wrapping
- Induction heating furnace coil liners & insulators
- Electrical insulation for band and strip heaters
- Non-ferrous metal transport
- Flame and splash curtains
- Hot glass handling
- Reinforcement of composite structures
- Immersion pyrometer protection tubes
- Small appliance electrical insulation
- Wire and cable insulation
- Pipe wrap and protection

ZIRCAR Refractory Composites, Inc.

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REFRACTORY SHEET RS-CLOTH & RS-TAPE

PHYSICAL PROPERTIES AND CHARACTERISTICS

Color	White
Composition, %	
Al ₂ O ₃	65
SiO ₂	21
Other Oxides	14
Organic Content	<1
Bulk Density, gm/cm ³ (pcf)	1.5 (92)
Flammability	Nil
Maximum Service Temp *, C (F)	1300 (2373)
Melting Point, C (F)	1500 (2732)
Tensile Strength, MPa (psi)	2.93 (425)
Linear Shrinkage, %	
24 hrs @ 1100°C, (2012°F)	2
Thermal Conductivity, Estimated, W/m ² K (Btu/hr ² F ft ² /in.)	
800°C (1472°F)	0.6 (4)

*Maximum Use Temperature is dependent on variables such as the stresses, both thermal and mechanical, and the environment that the insulation experiences.

AVAILABILITY

Item #	Description	Item #	Description	Item #	Description
MS001	RS-TAPE, 0.5" X 100' X 1/32"	MS23	RS-TAPE, 5" X 100' X 1/16"	MS45	RS-TAPE, 9" X 100' X 1/8"
MS002	RS-TAPE, 0.75" X 100' X 1/32"	MS24	RS-TAPE, 6" X 100' X 1/16"	MS46	RS-TAPE, 10" X 100' X 1/8"
MS003	RS-TAPE, 1" X 100' X 1/32"	MS25	RS-TAPE, 7" X 100' X 1/16"	MS47	RS-TAPE, 11" X 100' X 1/8"
MS004	RS-TAPE, 1.25" X 100' X 1/32"	MS26	RS-TAPE, 8" X 100' X 1/16"	MS48	RS-TAPE, 12" X 100' X 1/8"
MS005	RS-TAPE, 1.5" X 100' X 1/32"	MS27	RS-TAPE, 9" X 100' X 1/16"	MS49	RS-TAPE, 1" X 100' X 1/4"
MS006	RS-TAPE, 2" X 100' X 1/32"	MS28	RS-TAPE, 10" X 100' X 1/16"	MS50	RS-TAPE, 1.25" X 100' X 1/4"
MS007	RS-TAPE, 2.5" X 100' X 1/32"	MS29	RS-TAPE, 11" X 100' X 1/16"	MS51	RS-TAPE, 1.5" X 100' X 1/4"
MS008	RS-TAPE, 3" X 100' X 1/32"	MS30	RS-TAPE, 12" X 100' X 1/16"	MS52	RS-TAPE, 2" X 100' X 1/4"
MS009	RS-TAPE, 3.5" X 100' X 1/32"	MS31	RS-TAPE, 0.5" X 100' X 1/8"	MS53	RS-TAPE, 2.5" X 100' X 1/4"
MS010	RS-TAPE, 4" X 100' X 1/32"	MS32	RS-TAPE, 0.75" X 100' X 1/8"	MS54	RS-TAPE, 3" X 100' X 1/8"
MS011	RS-TAPE, 5" X 100' X 1/32"	MS33	RS-TAPE, 1" X 100' X 1/8"	MS55	RS-TAPE, 3.5" X 100' X 1/4"
MS012	RS-TAPE, 6" X 100' X 1/32"	MS34	RS-TAPE, 1.25" X 100' X 1/8"	MS56	RS-TAPE, 4" X 100' X 1/4"
MS013	RS-TAPE, 0.5" X 100' X 1/16"	MS35	RS-TAPE, 1.5" X 100' X 1/8"	MS57	RS-TAPE, 5" X 100' X 1/4"
MS014	RS-TAPE, 0.75" X 100' X 1/16"	MS36	RS-TAPE, 2" X 100' X 1/8"	MS58	RS-TAPE, 6" X 100' X 1/4"
MS015	RS-TAPE, 1" X 100' X 1/16"	MS37	RS-TAPE, 2.5" X 100' X 1/8"	MS59	RS-TAPE, 7" X 100' X 1/4"
MS016	RS-TAPE, 1.25" X 100' X 1/16"	MS38	RS-TAPE, 3" X 100' X 1/8"	MS60	RS-TAPE, 8" X 100' X 1/4"
MS017	RS-TAPE, 1.5" X 100' X 1/16"	MS39	RS-TAPE, 3.5" X 100' X 1/8"	MS61	RS-TAPE, 9" X 100' X 1/4"
MS18	RS-TAPE, 2" X 100' X 1/16"	MS40	RS-TAPE, 4" X 100' X 1/8"	MS62	RS-TAPE, 10" X 100' X 1/4"
MS19	RS-TAPE, 2.5" X 100' X 1/16"	MS41	RS-TAPE, 5" X 100' X 1/8"	MS63	RS-TAPE, 11" X 100' X 1/4"
MS20	RS-TAPE, 3" X 100' X 1/16"	MS42	RS-TAPE, 6" X 100' X 1/8"	MS64	RS-TAPE, 12" X 100' X 1/4"
MS21	RS-TAPE, 3.5" X 100' X 1/16"	MS43	RS-TAPE, 7" X 100' X 1/8"	MS75	RS CLOTH, 40" X 3' X 1/16"
MS22	RS-TAPE, 4" X 100' X 1/16"	MS44	RS-TAPE, 8" X 100' X 1/8"	MS76	RS CLOTH, 40" X 15' X 1/16"

Note: These products can be further processed to provide finished sizes. Processes such as slitting, cutting, die punching and CNC machining are available upon request. Larger sizes are available upon request.

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