

ZIRCAR Refractory Composites, Inc. produces a comprehensive range of advanced high performance ceramic-ceramic composites and related products. Our materials are used around the world in demanding thermal, structural and electrical insulating applications at temperatures from 600°C(1112°F) to 1650°C(3002°F). For over twenty-five years we have been a problem solver working with many industries to resolve their thermal management problems. We have developed materials that have become industry standards for induction melting, forging and heat-treating applications, investment casting, glass processing, hot pressing, as well as many high temperature electrical applications.

GENERAL INFORMATION

ZIRCAR Type SIL Silica Cloths consists of a useful variety of amorphous silica fiber fabrics. These fabrics are manufactured from glass fiber textiles which are acid leached. These silica textiles are strong and easy to work with. They exhibit good handleability and remain flexible in numerous high temperature applications. Type SIL cloths are useful where non-RCF textiles are desired.

Type SIL Silica Cloths meet Mil Spec MII-C-24576 type 1, Class 2.



CHARACTERISTICS & PROPERTIES

Type	SIL-1	SIL-2	SIL-3
Typical composition, %			
SiO ₂	98	98	96
Other oxides	2	2	4
Maximum Use Temperature,* °C(°F)	1093(2000)	1093(2000)	1260(2300)
Melting Point, °C(°F)	1700(3092)	1700(3092)	1650(3002)
Weight, gm/m ² (oz/yd ²)	600(18)	1200(36)	800(24)
Thickness, mm(in)	0.71(0.028)	1.37(0.054)	1.02(0.040)
Roll Width, m(in)	0.914(36)	0.914(36)	0.914(36)
Weave	Satin	Satin	Herringbone

* Maximum use temperature is dependent on variables such as stresses, both thermal and chemical, and the chemical environment that the material experiences.

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Technical Data

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SILICA CLOTH TYPES SIL-1, SIL-2 & SIL-3

SUGGESTED APPLICATIONS

- High temperature lagging cloth.
- High temperature composite fabrication.
- Welding curtains.
- Furnace curtains.
- Fabrication of High Temperature Clothing.
- Asbestos textile replacement.
- Flexible and resilient gasketing, joints and seals.
- Personal shielding protection in welding, metal cutting and other high heat applications.
- Applications where a high temperature flexible form is needed.
- Useful when non-RCF textiles are desired.

AVAILABILITY

Item #	Description
NS51	TYPE SIL-1, 36" X 50 LYD X 0.028"
NS52	TYPE SIL-2, 36" W X 50 LYD X 0.054"TK
NS53	TYPE SIL-3, 36" W X 50 LYD X 0.040"TK

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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