

ARMORWELD®

PRODUCT PART NUMBER

18S and 36S

Amorphous Silica Welding Cloth

ARMORWELD® AMORPHOUS SILICA CLOTH

PRODUCT DATA SHEET

ARMORWELD® Silica is acid-leached high amorphous silica cloth that is specially made to maximize both temperature resistance and room temperature physical strength. All **ARMORWELD® Silica** fabrics are manufactured to obtain the highest silica content without sacrificing physical properties. Silica content is necessary to obtain a temperature resistance of a continuous 1800° F. and a 3000° F. melting temperature. Traditionally high silica content fabrics possessed low tear strength, low breaking and poor abrasion resistance, which made them undesirable for demanding industrial applications and fabrication. Low silica content fabrics, are below 95% silica content. While possessing higher strength at low temperatures, they become brittle and friable at temperatures as low as 1300°F. causing total failure of the material. **EMTECH** has succeeded in developing unique silica fabrics that combine both high strength and high temperature resistance. All of the **EMTECH ARMORWELD®** products are economical alternatives to low temperature fabrics such as fiberglass, or silica fabrics that either do not perform at 1800°F. or have low physical strength and abrasion resistance.

PRODUCT FEATURES:

- High strength and abrasion resistance
- Easy to fabricate
- Coating available
- High silica content – excellent property retention @ 1800°F.
- Meets MIL-C-24576A Type 1/Class 1
- Available in uncoated/unsized condition for elastomer coating and lamination applications

APPLICATIONS:

- Removable insulation pads
- Welding blankets, screens and curtains
- Automotive heat shields
- Mufflers and silencers
- Stress relief blankets
- Fireproof building materials
- Heat treat and furnace curtains
- High temperature protective clothing

<u>TECHNICAL DATA:</u>	ARMORWELD® 18S-36-50	ARMORWELD® 36S-36-50
Silica content, %	96	96
Nominal Width, in.	36	36
Roll length, yds.	50	50
Fabric weight, oz./sq./yds.	18	36
Nominal thickness, in.	.030	.056
Fabric style	8-harness satin	12-harness satin
Melting point	3100°F	3100°F
Chloride residual, ppm	20	20
Abrasion resistance, Cycles to failure, (warp)	>200	>1000