



AMATEX SILICA FABRICS

A woven continuous filament amorphous silica fabric. Applications include pad fabrics, expansion joints, valve covers, special curtain materials. Resistant to most chemicals, good thermal protection to temperatures up to 1800 degrees F.

About AMATEX Corporation

Amatex manufactures industrial heat resistant textiles featuring Thermoglass™ fiberglass products, silica fabrics, and proprietary treated and coated products. These items include broad woven roll goods and narrow products in the form of woven and knitted tapes, sleeving, rope, and gasketing. With fiberglass and silica as the base textile, Amatex offers top and immersion coatings of Silicone, Teflon, Vermiculite, Neoprene, and Acrylic. Heat treating, dyeing, and coloration of the coatings are also available.

Amatex fabrics are commonly used in the following applications:

- Welding Cloth
- Foundry Cloth
- Insulation Cloth
- Heat Shield
- Gasketing
- Marine Insulation
- Industrial Insulation
- Pad Cloth
- Fire Barriers
- Fire Curtains
- Industrial Belting
- Filtration
- Expansion Joints
- Protective Clothing

Over 100 Years

Proud American Manufacturers of Industrial Textiles

| Amatex Silica Fabrics Data Sheet | | | | | | |
|----------------------------------|--|--|--|--|--|--|
| Style | HTX-600-9N | HTX-600-8N-AL7 | HTX-600-00-SRD1 (HTX-600-SR1-25) | HTX-1000-9N | HTX-1000-8N-AL7 | HTX-1000-00-SR1 (HTX-1000-SR1-25) |
| Base Fabric | Silica | Silica | Silica | Silica | Silica | Silica |
| Color/Appearance | Tan | Aluminized one side/ tan reverse | Red Silicone Rubber one side, tan reverse | Tan | Aluminized one side/ tan reverse | Red silicone rubber one side, tan reverse |
| Available Widths, standard | 36" (0.914m) (60" also available) | Minimum 35" (0.89m) | Minimum 35" (0.89m) | 36" (0.914m) (60" also available) | Minimum 35" (0.89m) | Minimum 35" (0.89m) |
| Roll Length, yards (approx.) | 50 (45.7m) | 50 (45.7m) | 50 (45.7m) 25 (22.8m) | 50 (45.7m) | 50 (45.7m) | 50 (45.7m) 25 (22.8m) |
| Weave Style | Satin, 8 harness | Satin, 8 harness | Satin, 8 harness | Satin, 12 harness | Satin, 12 harness | Satin, 12 harness |
| Fabric Weight, oz/sq. yd | 18 | 21 | 24 | 33 | 38 | 42 |
| Fabric Thickness, inches | 0.034 (0.86 mm) | 0.025 (0.63 mm) | 0.030 (0.76 mm) | 0.046 (1.17 mm) | 0.044" (1.09mm) | 0.054 (+/- .005") (1.37 mm) |
| Warp Strength, lbs/in. | 250.0 (114 Kg/2.54cm) | 350.0 (158 Kg/2.54 cm) | 300.0 (136 Kg/2.54 cm) | 350.0 (158 Kg/2.54 cm) | 430.0 (195 Kg/2.54cm) | 425.0 (193 Kg/2.54 cm) |
| Fill Strength, lbs/in. | 150.0 (68 Kg/2.54 cm) | 235.0 (107 Kg/2.54 cm) | 230.0 (104 Kg/2.54 cm) | 250.0 (114 Kg/2.54 cm) | 285.0 (129 Kg/2.54cm) | 300.0 (136 Kg/2.54 cm) |
| Abrasion Resistance | Very Good | N/A | Very Good | Excellent | N/A | Excellent |
| Temperature Tolerance | 1800°F continuous (990°C) 3100°F melt temp. (1700°C) | 1800°F continuous (990°C) 3100°F melt temp. (1700°C) | 1800°F continuous (990°C) 3100°F melt temp. (1700°C) | 1800°F continuous (990°C) 3100°F melt temp. (1700°C); Passes NFPA 701, Certification Available | 1800°F continuous (990°C) 3100°F melt temp. (1700°C) | 1800°F continuous (990°C) 3100°F melt temp. (1700°C) |
| Base Fabric Certifications | Higher than 95% Silica (SiO ₂) content | Higher than 95% Silica (SiO ₂) content | Higher than 95% Silica (SiO ₂) content | Higher than 95% Silica (SiO ₂) content | Higher than 95% Silica (SiO ₂) content | Higher than 95% Silica (SiO ₂) content |
| Chemical Resistance | Excellent | Excellent | Excellent | Excellent | Excellent | Excellent |
| Solvent Resistance | Excellent | Excellent | Excellent | Excellent | Excellent | Excellent |
| Sunlight & Age Resistance | Excellent | Excellent | Excellent | Excellent | Excellent | Excellent |
| Electrical Properties | High dielectric strength, low constants | High dielectric strength, low constants | High dielectric strength, low constants | High dielectric strength, low constants | High dielectric strength, low constants | High dielectric strength, low constants |
| Finish | 9N Tan 7N Tan, Hvy Vermiculite | AL7, aluminum laminate one side w/ 8N | Red Silicone rubber one side, tan reverse | 9N Tan 7N Tan (vermiculite) | AL7, aluminum laminate one side w/ 8N | Red Silicone rubber one side, tan reverse |
| Certifications | NFPA 701, ANSI/FM 4950 for curtain | | NFPA 701, ANSI/FM 4950 for curtain | NFPA 701, ANSI/FM 4950 for curtain | | NFPA701, ANSI/FM 4950 for Pad |