



LEADERS IN HIGH PERFORMANCE TEXTILES FOR THERMAL PROTECTION

TDS – 43
July 2018

FLXGLAS HT TREATED SATIN WEAVE FIBERGLASS FABRICS

Product Description

FLXGLAS® HT Treated Satin Weave Fiberglass fabrics are specialty fiberglass fabrics for continuous temperature applications. Utilizing a special coating process, the fiberglass fabrics are treated with a proprietary inorganic treatment to extend the continuous temperature capability of the fabrics. Conventional fiberglass fabrics can only be used at continuous temperatures up to 800°F (427°C), FLXGLAS® HT satin weave fiberglass fabrics can withstand continuous temperatures up to 1200°F (649°C) while maintaining good strength and flexibility. FLXGLAS® HT satin weave fiberglass fabrics consistently outperforms both standard fiberglass and other so-called “treated” fiberglass fabrics in elevated continuous temperature applications.

Applications

FLXGLAS® HT Fiberglass fabrics are used to manufacture high temperature textile products for industrial applications. **FLXGLAS® HT fiberglass fabrics** are typically used in dynamic conditions where textile products are flexing and moving in high temperature conditions. Typical uses are expansion joints, tube seals, removable insulation covers, and exhaust applications.

Technical Data Properties

| | HT26 | HT52 |
|---|-----------------|------------------|
| Weave Style | 8 Harness Satin | 12 Harness Satin |
| Warp, Ends/in. | 46 | 42 |
| Fill, Ends/in. | 35 | 35 |
| Tensile Strength, initial | | |
| Warp lbs./in. (kg/2.54 cm) | 630 (286) | 1,050 (476) |
| Fill lbs./in. (kg/2.54 cm) | 490 (222) | 840 (382) |
| After 3 hrs @ 1300°F (700°C) | | |
| Warp lbs./in. (kg/2.54 cm) | 360 (163) | 600 (272) |
| Fill lbs./in. (kg/2.54 cm) | 240 (109) | 410 (186) |
| Thickness, in. (mm) | 0.030 (0.76) | 0.055 (1.4) |
| Weight, oz./sq.yd. ² (grams/m ²) | 26 (880) | 52 (1760) |
| Widths, in. (cm) | 38 (97) | 60 (150) |

Notes:

1. All fabrics are made from continuous filament yarn.
2. Standard roll length is 50 yards (45.7 meters).
3. Fabric color is tan.
4. Standard widths for HT26H and HT52H are 38 (96.5 cm) and 60 (152 cm) inches.

AVS Industries cannot predict all of the potential applications for which customers may attempt to use the Flxglas specialty fiberglass products. Flxglas fabrics will have varying degrees of effectiveness for each potential application depending on the maximum temperature attained, the length of use, and the amount of temperature fluctuation. If the customer has any questions regarding the use of Flxglas Products in a particular application, please contact AVS Industries at (302) 221-1720 and we will provide a sample of the Flxglas fabrics for testing. This product is not warranted against injuries or damages of any kind caused by uses for which this product was not designed, intended, or tested by AVS Industries.