



# Product Bulletin - MCSA.12.00.01

## Style S1-Glass Chopped Fibers

**Description:** S1-Glass Chopped fibers are designed for reinforcement applications. With a tensile modulus of up to 87 GPa, S1-Glass represents one of the highest values in the Glass fiber family. This allows for larger panels at the same weight or reduced weight at same panel dimensions.

50% higher tensile strength than E-Glass yarns allow for higher loadings.

10 x higher fatigue properties increase reliability of the end product.

### Physical Properties:

Filament Diameter (mcm)	18
Density (y.p.p)	207
Seizing	383, Epoxy Polyester Compatible
Length (inch)	1/2"
Packaging (lb/ box)	50
Strand Tensile Strength (MPa)	3228 - 3337
Strand Tensile Modulus (GPa)	84 - 87
Bulk Glass Density (lb/cu.in.)	0.092
Glass Fiber Density (lb/cu.in.)	0.091
Softening Point (degrees F)	1825
Coefficient of Thermal Expansion (x10(-7) Degrees F)	24
Boron Free	

**Recommended Uses:** Blade Spar, Spall Liner, Pressure Tanks, Ballistic, High Temperature Reinforcements

**Please ask our experienced Technical Sales for detailed information or for new developments.**

**We appreciate your consideration!**

### Disclaimer:

All statements herein are expressions of opinion which we believe to be accurate and reliable, but are presented without guarantee or responsibility on our part. This information is to assist you in your endeavors and is subject to your own evaluation and confirmation as to the suitability for any specific purpose. Allendale Fibertech Corporation, Inc. takes no responsibility for misuse of these products. Allendale Fibertech Corporation, Inc. recommends testing before use.