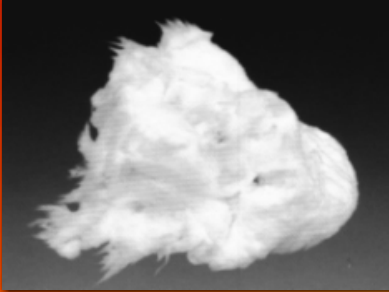




Ceramic Bulk Fiber



Properties

NUTEC Fibrattec* bulk and chopped is produced by the fusion of high purity alumina/silica raw materials in an advanced electric arc furnace. The fibers produced are exceptionally clean and consistent in quality and texture.

NUTEC Fibrattec* bulk and chopped fibers are loose, long and flexible with high refractory properties, and are produced by the "blown" and the "spun" processes. They are used as the base for the production of moldable, and vacuum formed board and shapes.

Textile bulk is the ideal solution for applications requiring a low shot content fiber. The fiber was developed for the manufacture of high temperature ropes and cloth. However it is now used in the manufacture of vacuum formed shapes and felt products. Textile bulk contains a lubricant.

Ceramic Fiber Bulk

Typical Physical	LTS	HPL	HPS	HTZ	RT	HT
Max. Use Limit, °C(°F)	1000(1800)	1260(2300)	1315(2400)	1425(2600)	1260(2300)	1482(2600)
Continuous Use Limit,	900(1652)	1160(2120)	1200(2192)	1325(2417)	1160(2120)	1380(2516)
Melting Point, °C(°F)	1760(3200)	1760(3200)	1760(3200)	1815(3300)	1760(3200)	1760(3200)
Fiber Diameter, microns	3.0	3.0	3.0	3.0	2.5	2.5
Fiber Length, mm (in)	203 (8)	203 (8)	203 (8)	203 (8)	178(7)	178(7)

Chemical Analysis (%)

AL2O3	42-46	45-46	44-50	33-37	46-48	52-54
SiO2	50-60	51-52	50-56	47-51	49-55	42-46
ZrO2	-	-	-	13-19	-	-
Fe2O3	0.7-1.5	0.1-0.2	0.1-0.2	0.1-0.2	0.8-1.2	0.1-0.2
TiO2	1.5-1.9	0.1-0.2	0.1-0.2	0.1-0.2	1.5-1.9	0.1-0.2

1260 Textile Grade Bulk Fiber

Typical Physical Properties	1260 HPT Bulk	1260 HPT Chopped
	White	White
Classification Temp, °C(°F)	1260(2300)	1260(2300)
Continuous Use Limit, °C(°F)	1160(2120)	1160(2120)
Melting Point, °C(°F)	1760(3200)	1760(3200)
Shot Content, (Diameter<0.25mm)	<10% 3-5	<10% 3-5
Filament Diameter, microns		

Mean Temperature, 80kg/m3 (8 lb/ft3)

@500°F	0.07(0.48)	0.07(0.48)
@1000°F	0.14(0.97)	0.14(0.97)
@1500°F	0.23(1.57)	0.23(1.57)
@1800°F	0.29(1.98)	0.29(1.98)
@2000°F	0.33(2.27)	0.33(2.27)

Thermal Conductivity, W/moK (BTÜ-in/hr-ft2-

Mean Temperature, 128kg/m3 (8 lb/ft3)

@500°F	0.06(0.42)	0.06(0.42)
@1000°F	0.12(0.82)	0.12(0.82)
@1500°F	0.19(1.32)	0.19(1.32)
@1800°F	0.24(1.67)	0.24(1.67)
@2000°F	0.28(1.92)	0.28(1.92)

Typical Physical Properties	1260 HPT Bulk	1260 HPT Chopped
AL2O3	45-46	45-46
SiO2	51-52	51-52

Bu bilgiler, de i ebilen tipik özellikleri temsil etmektedir ve spesifikasyon amacıyla kullanılmamalıdır.
This data represents typical properties subject to variations and should not be used for specification purposes.