TEKFIBER Pure Ceramic Fiber

TEKFIBER BLANKET

Due to the high technology used, Tekfiber ceramic fiber blankets have excellent properties .
Tekfiber blankets are made of high purity raw materials -alumina powder, pure silica sand, zircon sand. Hence their shrinkage is very low.

Very low shot content give them superior insulation characteristics. Very good spun fiber and very good needling process result in high textile strength and long term durability.

Advantages

- Low Thermal conductivity,
- Low heat storage,
- High tensile strentgh
- Excelent thermal shock resistance,
- Resistance to any chemical, water and steam
- Excellent sound, heat insulation
- No need preheating and drying time to reach application temperature
- Lightweight
- Asbestos free

%	TEKFIBER 1260	TEKFIBER 1430
Al_2O_3	42-45	35
SiO_2	52	49
ZrO_2	-	15
Fe_2O_3	<1	<1
Na_2O+K_2O	0,3	0,3

	TEKFIBER 1260	TEKFIBER 1430
Melting Temperature	1760C	1800C
Classification Temperature	1260C	1430C
Thermal Conductivity W/mK		
400°C	0,08	0,08
600°C	0,10	0,10
800°C	0,14	0,14
1000°C	0,20	0,20
Spesific Heat kj/kgK		
600°C	0.14	-
800°C	0.19	0.19
1000°C	0.27	0.27
1200°C	-	0.36
Lineer Shrinkage (24 hours)	%3 (1200C)	%3 (1300C)
Tensile Strength (128kg/m^3) kPa	>70	
Fiber diameter	>1,8 µm	

Thickness	70 kg/m^3	96 kg/m^3	128 kg/m^3	160kg/m^3	Dimension mm
6 mm			✓	✓	21.600x610x6
10 mm			✓	✓	18.300x610x10
13 mm	✓	✓	✓	✓	14.640x610x13
19 mm	✓	✓	✓	✓	9.760x610x19
25 mm	✓	✓	✓	✓	7.320x610x25
38 mm	✓	✓	✓	✓	4.800x610x38
50 mm	✓	✓	✓	✓	3.660x610x50

Applications

- Furnace and kiln insulation
- Boiler insulations,
- Duct and hot pipe insulation
- Excelent thermal shock resistance,
- Fire protection systems
- Insulation of roller of the heating furnace
- Insulation of petrochemical heating furnaces reformers and pipes
- Expension joints of refractory materials
- Furnace door insulation and sealings

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