Laurel Refractory

Ceramic fiber paper

Brief description

Laurel ceramic fiber paper,is a lightweight refractory material processed from a blend of high purity alumina-silica fibers into a highly flexible,uniform sheet.
Ceramic fiber paper,has low shrinkage,good handling strength,and low thermal conductivity.
it contains a small amount of organic binder for processing which makes it flexible,yet reduces off-gassing and odour during use.our product has a highly uniform structure due to its controlled basis weight and thickness,assuring homoaeneous thermal conductivity and a clean,smooth surface ideal for gasketing or sealing.
Ceramic fiber paper is completely free to asbestos and is designed to be an economic replacement for asbestos paper in most applications.

Features

1.Easy to wrap,shape or cut
2.Lightweight
3.Low thermal conductivity;Low heat storage
4.Good uniformity and smooth appearance
5.Good flexibility and toughness and resistance to avulsion
6. Good dielectric strength and sound insulation
7. Excellent thermal shock resistance
8. Excellent chemical satability and machining property
9. Excellent corrosion resistance

Technical data

Item		Standard	High Pure	High Aluminium	Zirconium
Max. Temperature (℃)		1050	1150	1260	1430
Shrinkage on Heating (%)		800℃×24h≤-3	1000℃×24h≤-3	1280℃×24h≤-3	1400℃×24h≤-3
Organic Content (%)		≤5	≤5	≤5	≤5
Thermal conductivity by mean temp. (W/m.k.) (250kg/m³)	200℃	0.055 ~ 0.065		0.060 ~ 0.070	
	400℃	0.110 ~ 0.120		0.105 ~ 0.125	
	600℃	0.160 ~ 0.170		0.170 ~ 0.180	
Chemical Composition(%)	AL_2O_3	43	47	55	38
	SiO_2	53	51	44	44
	$Fe_2O_3 + Ti_2O_3$	≤1.2	≤0.3	≤0.3	≤0.2
	CaO + MgO	≤0.3	≤0.3	≤0.3	≤0.2
	$NaO + KO_2$	≤0.5	≤0.3	≤0.3	≤0.2
Density (kg/m³)		170~230			

Applications

1.Die cut gaskets between castings in coke oven doors, blast furnace hot air piping, aluminium heat treating furnace, tuyeres and heat treat furnaces.
2.Backup for brick and monolithic refractories in blast furnace stoves, piping, tundish, ladle, hot metal cars, trough etc.
3.Mould wrapping for controlled cooling
4.SEN isulation wraping
5.Shield for welding & brazing operation
6.Rotary klin back-up insulation
7.Fabricated into tapout cones for Aluminium industry.
8.Strips in bottom of ingot mould for sealing
9.Expansion joint packing
10.Induction coil liner
11.Mould liner
12.Silencer interleaf
13.Ladle & tundish insulation
14.Asbestos paper replacement
15.Hot top linings
16.Thermal and electrical insulation

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