

Unifrax Isofrax® 1260C Paper Fiber

Category : Ceramic , Oxide , Magnesium Oxide , Silicon Oxide

Material Notes:

Isofrax® 1260C Paper is a unique product which is manufactured by forming Isofrax 1260C Fiber in a nonwoven matrix. The fibers are randomly oriented during manufacture, then held in place with a latex binder system. A specialized, statistically controlled paper-making process is utilized to form uniform, lightweight, flexible materials, including Isofrax 1260C Paper. Isofrax 1260C Fiber, the fiber utilized in Isofrax 1260C Paper, is a revolutionary new fiber that utilizes a unique, patented silica-magnesia chemistry to solve a variety of demanding, high-temperature applications problems. Isofrax 1260C Fiber is the product of a long-term research and development effort by Unifrax to produce a fiber which has the high temperature performance characteristics required in many applications at temperatures up to 1260°C/2300°F and also meets European regulatory requirements (Directive 97/69/EC). Isofrax 1260C Paper exhibits excellent chemical stability and resistance to attack from most corrosive agents. Exceptions include hydrofluoric acid, phosphoric acid and strong alkalis. Isofrax 1260C Paper also provides superior wetting resistance to molten aluminum alloys at high temperatures. Isofrax 1260C Paper will generate small amounts of smoke and trace element outgassing during initial exposure to temperatures above 230°C (446°F). Advantages: High-temperature stability, Low thermal conductivity, Meets European regulatory requirements, Flexibility, Easy to wrap, shape, or cut, Margin of safety. Applications: Automotive and aerospace heat shields, Gaskets for ovens, stoves, heaters and other appliances, Highly efficient refractory backup insulation in ladles, glass tanks and other high-temperature furnaces, Automotive muffler insulation, Insulating wrap for shrouds/stopper rods in steel manufacturing, Investment casting mold wrap, Thermocouple tube protection. Information Provided by Unifrax I LLC

Order this product through the following link:

http://www.lookpolymers.com/polymer_Unifrax-Isofrax-1260C-Paper-Fiber.php

Physical Properties	Metric	English	Comments
Density	0.160 g/cc	0.00579 lb/in ³	
Loss On Ignition	7.0 - 10 %	7.0 - 10 %	(Wt.) including binder

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	0.379 MPa	55.0 psi	
Compressive Strength	0.0138 MPa	2.00 psi	10% deformation
	0.0345 MPa	5.00 psi	25% deformation
	0.172 MPa	25.0 psi	50% deformation

Thermal Properties	Metric	English	Comments
Melting Point	1500 °C	2730 °F	
Maximum Service Temperature, Air	1175 °C	2147 °F	Recommended Operating Temperature

Descriptive Properties	Value	Comments
Color	White	
Fiber Index (% Wt)	70	
Temperature Grade (°C)	1260	

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