

## ITC 100 HT

**Description:** A versatile high temperature coating that has proven to achieve outstanding energy savings and refractory protection. It is used as a covering for ceramic fiber insulation, castable or brick refractory. This material reflects radiant heat back into the furnace or forge in order to achieve high temperatures quickly and efficiently. ITC-100 HT improves the IR reflectivity of all furnace linings improving fuel efficiency and overall throughput. Use it alone or as a base coat for other ITC products.

**Physical Properties:**

*Technical data should be considered representative and should not be used for specification purposes.*

Coefficient of Thermal Expansion	Fractional < 1/16"
Temperature Use Limit	4500 <sup>0</sup> F
Cured Shrinkage	Negligible
Coverage	50 – 100 ft <sup>2</sup> per gallon
Porosity	8-16%

**Torch test @2500°F to determine ΔT of selected material**

<b>FIBER BLANKET</b>	<b>HOT FACE</b>	<b>COLD FACE</b>	<b>ΔT</b>
Uncoated 1" thick, 8 lb. density, 2000 <sup>0</sup> F rated Fiber Blanket	2500 <sup>0</sup>	2500 <sup>0</sup>	0 <sup>0</sup>
Coated 1" thick, 8 lb. density, 2000 <sup>0</sup> rated Fiber Blanket w/ITC 100HT & 296A	2500 <sup>0</sup>	120 <sup>0</sup>	2380 <sup>0</sup>
<b>INSULATING FIRE BRICK</b>			
Uncoated 1" thick, 2400 <sup>0</sup> F IFB (insulating fire brick)	2500 <sup>0</sup>	1400 <sup>0</sup>	1100 <sup>0</sup>
Coated 1" thick, 2400 <sup>0</sup> IFB (insulated Fire Brick) w/ITC 100HT & 296A	2500 <sup>0</sup>	Room Temperature	
Uncoated 1" thick, 2600 <sup>0</sup> F IFB (insulating fire brick)	2500 <sup>0</sup>	1000 <sup>0</sup>	1500 <sup>0</sup>
Coated 1" thick, 2600 <sup>0</sup> IFB (insulated Fire Brick) w/ITC 100HT & 296A	2500 <sup>0</sup>	Room Temperature	

The physical and/or chemical properties and specifications of the product set forth above represent typical average results obtained in accordance with generally accepted standard test methods conducted under controlled conditions, and are subject to normal manufacturing variations. ITC reserves the right to modify the properties and specifications at any time without prior notice.

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