

ITC 296A TOP COAT

Description: ITC 296A is a high purity ceramic coating that resists deposits from both firing gases and molten metals. The coating increases energy efficiency by reflecting heat back into the furnace or into the melt itself resulting in higher temperatures, lower fuel use and/or shorter process times. Additionally, 296A aids in the reduction of contamination of subsequent firings from the by products of previous heats. ITC 296A is only recommended as a topcoat and should not be used as a stand-alone coating.

Physical Properties:

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

PROPERTY	VALUE
Coefficient of Thermal Expansion	Fractional < 1/16"
Temperature Use Limit	5000 ^o F
Cured Shrinkage	Negligible
Coverage	100 – 200 ft ² per gallon
Porosity	2-6%

Torch test @2500^oF to determine ΔT of selected material

FIBER BLANKET	Hot Face	Cold Face	ΔT
Uncoated 1" thick, 8 lb. density, 2000 ^o F rated Fiber Blanket	2500 ^o	2500 ^o	0 ^o
Coated 1" thick, 8 lb. density, 2000 ^o rated Fiber Blanket w/ITC 100HT & 296A	2500 ^o	120 ^o	2380 ^o
INSULATING FIRE BRICK			
Uncoated 1" thick, 2400 ^o F IFB (insulating fire brick)	2500 ^o	1400 ^o	1100 ^o
Coated 1" thick, 2400 ^o IFB (insulated Fire Brick) w/ITC 100HT & 296A	2500 ^o	Room Temperature	
Uncoated 1" thick, 2600 ^o F IFB (insulating fire brick)	2500 ^o	1000 ^o	1500 ^o
Coated 1" thick, 2600 ^o IFB (insulated Fire Brick) w/ITC 100HT & 296A	2500 ^o	Room Temperature	
PLAIN CARBON STEEL			
Coated 1/8" thick plain carbon steel w/ITC 213 & 296A on both hot face and cold face	2500 ^o	1450 ^o	1050 ^o

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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