

# spun ceramic wool blanket

Nutec Fibratec™ blanket is composed of long, flexible, interwoven fibers manufactured by the “blown” and “spun” process yielding a strong, lightweight, durable product. This material can be used for applications with temperatures from 538°C (1000 °F) to 1480°C (2700°F). Nutec Fibratec™ blankets have high tensile strength for longer life and durability.

## FEATURES

- Low Thermal Conductivity
- Low Heat Storage
- High Tensile Strength
- Thermal Shock Resistance
- Sound Absorption
- Easy to Install
- Contains no Binder
- Contains no Asbestos
- No Curing or Dry Out Time Required

## TYPICAL APPLICATIONS

### Refining and Petrochemical

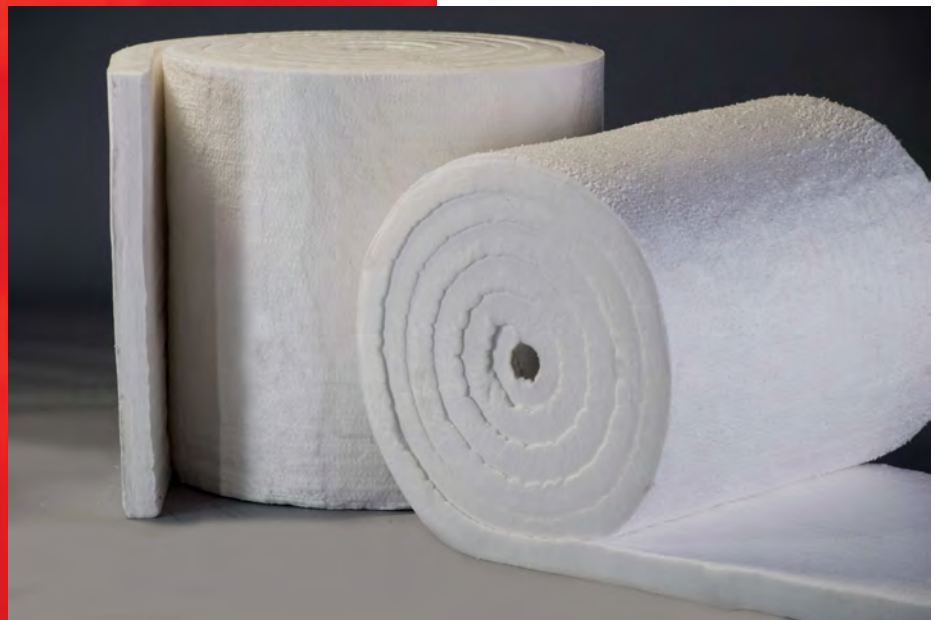
- Reformer and Pyrolysis Furnaces
- Tube Seals, Gaskets and Expansion Joints
- High Temperature Pipe, Duct and Turbine Insulation
- Crude Oil Heater Linings

### Steel Industry

- Heat Treating and Annealing Furnaces
- Furnace Door Linings and Seals
- Soaking Pit Covers and Seals
- Furnace Hot Face Repairs
- Reheat Furnaces
- Ladle Covers

### Ceramic Industry

- Kiln Car Insulation and Seals
- Continuous and Batch Kilns



## Power Generation

- Boiler Insulation
- Boiler Doors
- Reusable Turbine Covers
- Pipe Covering

## Other Applications

- Insulation of Commercial Dryers and Covers
- Veneer Over Existing Refractory
- Stress Relieving Furnaces
- Glass Furnace Crown Insulation
- Fire Protection

Typical Physical Properties	LTS	RTS	HPS	HTZ	HTA
Density lb/ft <sup>3</sup> (kg / m <sup>3</sup> )	4, 6, 8, 10 (64, 96, 128, 160)	4, 6, 8, 10 (64, 96, 128, 160)	4, 6, 8, 10 (64, 96, 128, 160)	4, 6, 8, 10 (64, 96, 128, 160)	4, 6, 8, 10 (64, 96, 128, 160)
Maximum Use Limit, °C (°F)	1000 (1832)	1260 (2300)	1315 (2400)	1425 (2600)	1482 (2700)
Continuous Use Limit, °C (°F)	900 (1652)	1093 (2000)	1204 (2200)	1325 (2417)	1325 (2417)
Melting Point, °C (°F)	1760 (3200)	1760 (3200)	1760 (3200)	1760 (3200)	1760 (3200)
Average Fiber Diameter, microns	3.0	3.0	3.0	3.0	2.5
<b>Linear Shrinkage</b>					
24 Hrs @ 1000 °C (1832°F)	2.0	2.0	-	-	-
24 Hrs @ 1100 °C (2012°F)	-	-	1.8	-	-
24 Hrs @ 1300 °C (2372°F)	-	-	-	2.0	2.0
<b>Chemical Analysis (%)</b>					
Al <sub>2</sub> O <sub>3</sub>	42-46	40-50	44-50	33-37	52-54
SiO <sub>2</sub>	50-60	50-60	50-56	47-51	42-46
ZrO <sub>2</sub>	-	-	-	13-19	-
Trace Elements < 1%					