



INSULTECH POWER

An ISO-9001 : 2015 & OHSAS 18001 : 2007 CERTIFIED

Regd. Office :- D-426, GC-5, Gaur City-1, Greater Noida West, Gautam Budh Nagar (UP)-201009 ,

Email :- insultech.power@gmail.com, Cell :- +91-8804705530

PROFILE

We are an ISO 9001:2015 & OHSAS 18001:2007 certified insulation company providing customers the complete solution of energy audit, design, supply and application of thermal insulation, having a vast experience of planned execution of different projects like NTPC, Adani Power, RSEB- Suratgarh, etc.

We work with our customers to provide quality products and services that always meet or exceed their expectations. We commit the resources and create an environment in which employees can contribute skills, talents and ideas to a continuous process of improvement and innovation in all aspects of our business in a manner that assures the long-term viability of the Company.

We have an expertise in turbine insulation designing, supply and application with ceramic fiber in different modes of application to meet the top-bottom casing difference within a limit of 20°C, alternatively surface temp. ambient +20°C.

We have our vast experience of last 25 years in this field throughout the country and have covered almost all the major power plants in India as listed below-

NTPC

- Vindhyannagar –
- (500MW Unit No 7,8,9,10 &13 through PowerMech & Siemens)
- Korba 2X210MW & 2X500MW
- Sipat 1X500MW
- Jhajhar 1X500MW
- Dadri 1X500MW
- Unchahar 1x200MW
- Simadri 3X500MW
- ACB Korba 2X135MW
- Vandana Vidyut Korba 2X135MW
- Vedanta Jharsugora 4X135MW
- Adani Power Mundra 3X330MW



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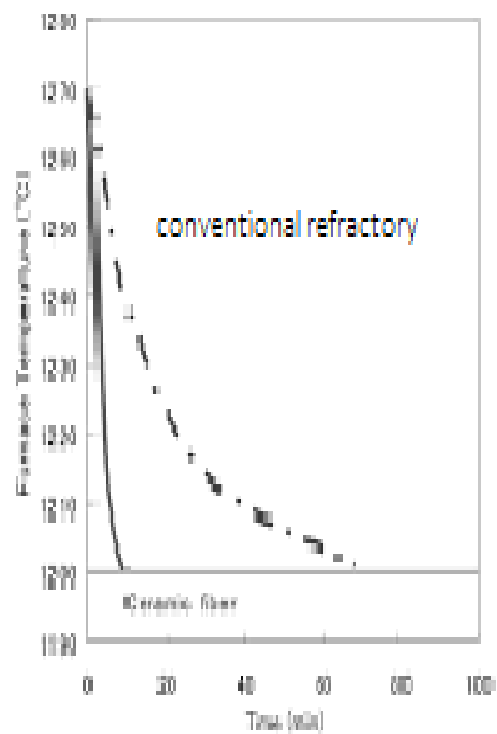
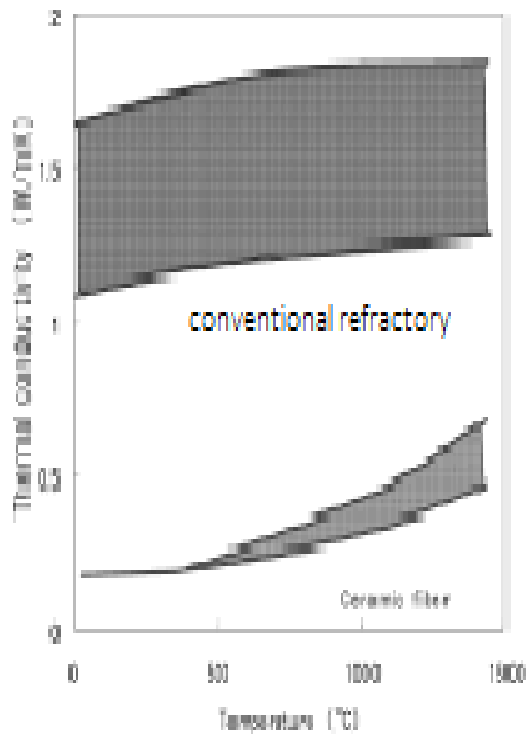
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CERAMIC FIBER AND THE DEVELOPMENT OF TURBINE INSULATION TECHNOLOGY.

CERAMIC FIBER (CF) IS A MAN-MADE MINERAL FIBER CONSISTING MAINLY OF ALUMINA AND SILICA. BECAUSE OF ITS EXCEPTIONALLY LOW THERMAL CONDUCTIVITY, CF DISSIPATES LITTLE HEAT FROM THE FURNACE AND HAS REMARKABLE ENERGY-SAVING PROPERTIES. IN ADDITION, BECAUSE OF ITS LOW DENSITY AND LOW THERMAL INERTIA, CF FACILITATES CONTROLLING THE TEMPERATURE.

CERAMIC FIBERS ARE LARGELY DIVIDED INTO VITREOUS ALUMINA-SILICA CERAMIC FIBER (VITREOUS CF) WHOSE SERVICE TEMPERATURE IS BELOW 1,250 °C AND CRYSTALLINE ALUMINA-CERAMIC FIBER (CRYSTALLINE CF) WHOSE SERVICE TEMPERATURE IS ABOVE 1,250 °C.



comparison of ceramic fiber and conventional refractory



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Ceramic Blanket Specs	Commercial Grade Blanket	High-Purity Grade Blanket	Zirconia Grade Blanket
Color	White	White	White
Maximum Use Limit	1260°C (2300°F)	1260°C (2300°F)	1426°C (2600°F)
Continuous Use Limit	800°C (1472°F)	1100°C (2012°F)	1350°C (2461°F)
Average Fiber Diameter	3 - 4.5 microns	3 - 4.5 microns	3 - 4.5 microns
Average Tensile Strength			
4 pcf. density	5.075 psi	5.075 psi	5.075 psi
6 pcf. density	7.250 psi	7.250 psi	7.250 psi
8 pcf. density	11.600 psi	11.600 psi	11.600 psi
Rate of Linear Shrinkage			
(24 hrs @ 1000°C)	4%	-	-
(24 hrs @ 1100°C)	-	3%	-
Thermal Conductivity w/m-k (Btu in./hr/ft ² F)			
4 pcf. density @ 400°C (752°F)	0.06 (.416)	0.06 (.416)	-
4 pcf. density @ 600°C (1112°F)	-	-	-
4 pcf. density @ 800°C (1472°F)	0.11 (.763)	0.11 (.763)	0.11 (.763)
4 pcf. density @ 1000°C (1832°F)	-	0.16 (1.11)	0.16 (1.11)
Chemical Contents	Commercial Grade	High-Purity Grade	Zirconia Grade
Al ₂ O ₃	44%	47% - 49%	39% - 40%
SiO ₂	52%	50-52%	38-45%
ZrO ₂	-	-	15-17%
Fe ₂ O ₃	<1.2%	0.2%	0.2%
K ₂ O + Na ₂ O	≤0.5%	0.2%	0.2%

PROPERTIES OF CERAMIC BLANKET-



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