

WAP / M / SPECN-1 / 029 / 1989

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GOVERNMENT OF INDIA  
MINISTRY OF RAILWAYS

SPECIFICATION FOR

MINERAL FIBRE THERMAL INSULATION BLANKETS  
FOR HIGH TEMPERATURE

ISSUED BY  
MECHANICAL DRAWING OFFICE  
WHEEL AND AXLE PLANT YELAHANKA  
BANGALORE

<i>Chand</i>	<i>Chand</i>	<i>Chand</i> 27.8.94
D, CME / WI	WM / MR	SUPDT / DES
APPD. BY	CHD. BY	PRE PD. BY

SPECIFICATION OF MINERAL FIBRE THERMAL INSULATION BLANKETS FOR HIGH TEMPERATURE APPLICATION.

1.0 SCOPE

1.1 This Specification covers the manufacture and supply of Alumina Silicate Ceramic Fibre Sheet to Wheel and Axle Plant, Yelahanka, near Bangalore, Karnataka State, India for use as insulating material for high temperature application as per instructions and conditions of Contract and tender papers.

2.0 GENERAL DESCRIPTION:

2.1 Mineral Fibre Thermal Insulation Blankets for high temperature application.

3.0 JOB REQUIREMENT:

Mineral Fibre Thermal Insulation Blanket is used for insulating the Furnace Covers/Doors/Ceilings etc.

4.0 MATERIAL:

4.1 The material should be capable of use at service temperature upto 1400°C.

4.2 The chemical composition of the material assessed as per the applicable A.S.T.M. Specifications should confirm to the following.



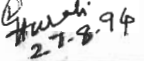
(a) $Al_2O_3$	:	52-56%
(b) $SiO_2$	:	44-48%
(c) $Fe_2O_3$	:	Less than 0.1%
(d) $TiO_2$	:	Less than 0.3%

5.0 REFRACTORY CHARACTERISTICS:

5.1 Melting temperature : 1810°C

5.2 P.C.E. : + 36

6.0 DENSITY AS PER ASTM C-892: 128 Kgs/m<sup>3</sup>

		
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7.0 Thermal conductivity at mean temperature of 550°C as per A.S.F.M. C-201 : 1.3 BTU - in/hr Ft°C.

8.0 STABILITY AND THERMAL RESISTANCE:

8.1 Loss in weight of dry sample should not be more than 1% after 5 cycles of heating for 3 hours at and cooling from 100°C.



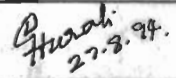
8.2 There should not be any sign of crumbling of the wool after 5 cycles.

9.0 SIZE:

9.1 The Blanket should be supplied as Sheets of length 7600mm, width 610mm and thickness 25mm.

10.0 TEST CERTIFICATE:

The Supplier should furnish the test certificate a proof for fulfilling the requirements of the specification.

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