

## DATA SHEET

### STAINLESS STEEL WOOL

GRADE: AISI 434 - W.Nr. 1.4113 - SUS 434

Coarse Type

#### CHEMICAL COMPOSITION % :

| C           | P            | Mn          | S            | Si          | Cr             | Mo               |
|-------------|--------------|-------------|--------------|-------------|----------------|------------------|
| <b>0.08</b> | <b>0.045</b> | <b>1.00</b> | <b>0.030</b> | <b>1.00</b> | <b>16 - 18</b> | <b>0.9 - 1.3</b> |
| max         | max          | max         | max          | max         |                |                  |

#### FEATURES:

APPARENT DENSITY:  
WEIGHT:

MEAN DENSITY 160 KG/CU METER  
STANDARD 40 GR/LINEAR METER  
ALLOWANCE ON WEIGHT +/- 15%

WIDTH OF STRIP:  
DELIVERY FORM:

100 MM.  
ROLLS OF 700 MM DIAMETER  
WEIGHT OF ROLL = 6 / 7 KG.

#### PHYSICAL PROPERTIES:

MELTING TEMPERATURE:

1420 - 1510 ° C

MAXIMAL DUTY TEMPERATURE:

CYCLIC HEATING 850 ° C  
CONTINUOUS SERVICE 800 ° C

TENSILE STRENGTH:

ROOM TEMPERATURE 700-800 Mpa  
AT 850 ° C 50-55 Mpa

STRESS MODULE:

97 GN. SQ/METER AT 859 ° C

THERMAL EXPANSION COEFFICIENT:

13.1X10-6 AT 850 ° C PER ° C

THERMAL CONDUCTIVITY:

24.8 W.mK-1 at 450°

FILAMENT CROSS SECTION:

#### *DIMENSIONAL DISTRIBUTION*

|           |         |     |
|-----------|---------|-----|
| < 80      | microns | 5%  |
| 80 - 120  | microns | 10% |
| 100 - 120 | microns | 15% |
| 120 - 150 | microns | 65% |
| > 150     | microns | 5%  |

### DBM

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