

DATA SHEET

STAINLESS STEEL WOOL

GRADE: AISI 446 - SUS 446
DIN X10 CrA124 - W.Nr. 1.4762
MELTING FILAMENT (*)

CHEMICAL COMPOSITION: %

C	P	Mn	S	Si	Cr	Ni
0.26	0.02	1.60	0.05	3.06	24.8	0.22

FEATURES:

APPARENT DENSITY: MEAN DENSITY 160 KG/CU METER
WEIGHT: STANDARD 50 GR/LINEAR METER
ALLOWANCE ON WEIGHT +/- 15%
WIDTH OF STRIP: 100 MM.
DELIVERY FORM: ROLLS OF 500-600 MM DIAMETER
WEIGHT OF ROLL APPROX. 7-8 KG.

PHYSICAL PROPERTIES:

MELTING TEMPERATURE: 1425 - 1510 ° C

MAXIMAL DUTY TEMPERATURE: CYCLIC HEATING 1205 °C
CONTINUOUS SERVICE 1100 °C

TENSILE STRENGTH: ROOM TEMPERATURE 700-800 Mpa
AT 870 ° C 50-55 Mpa

MODULUS OF ELASTICITY: 97 GN. SQ/METER AT 870 ° C

THERMAL EXPANSION COEFFICIENT: 13.1X10-6 AT 870 ° C

THERMAL CONDUCTIVITY: 24.8 W.mK-1 at 540°

FILAMENT CROSS SECTION: *DIMENSIONAL DISTRIBUTION*
(Expressed as an equivalent diameter)

< 50 μ	5%
50 - 80 μ	20%
80 - 120 μ	70%
120 - 150 μ	5%

FILAMENT AVERAGE DIAMETER 90 μ

High-temperature resistant acoustic absorption and filter material made from stainless steel filament. It is used in packed automotive exhaust silencers, either independently or in conjunction with other sound absorption materials.

(*) Melted filament has a brown-silver colour due to preoxidation of material during production in melting overflow system. Oxidation test has shown that preoxidated material reduce losses in volume and resist better to high temperature.

DBM

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