



ASM Aerospace Specification Metals Inc.

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Allegheny Ludlum AL 418™ (Greek Ascology) Special Martensitic Stainless Steel

Subcategory: Ferrous Metal; Metal; Stainless Steel; T 400 Series Stainless Steel

Key Words: AMS 5508

Component	Wt. %
Cr	13
Fe	82
Ni	2
W	3

Material Notes:

Iron content above calculated as remainder.

Uses include engine braces, turbine exhaust components, exhaust struts, stiffeners, and ducts.

Information provided by Allegheny Ludlum

Physical Properties	Metric	English	Comments
Density	<u>7.87 g/cc</u>	0.284 lb/in ³	

Mechanical Properties

Hardness, Rockwell C	25	25	
Tensile Strength, Ultimate	<u>895 MPa</u>	130000 psi	
Tensile Strength, Yield	<u>725 MPa</u>	105000 psi	0.2% YS
Elongation at Break	<u>15 %</u>	15 %	

Some of the values displayed above may have been converted from their original units and/or rounded in order to display the information in a consistent format. Users requiring more precise data for scientific or engineering calculations can click on the property value to see the original value as well as raw conversions to equivalent units. We advise that you only use the original value or one of its raw conversions in your calculations to minimize rounding error.