



ASM Aerospace Specification Metals Inc.



Contact Us

Vasco® Greek Ascoloy Specialty Steel, Heat Treatment: 871°C (1600°F) + Age

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

Key Words: Allvac, an Allegheny Teledyne Company, UNS S41800; AMS 5508, 5616. MTS 1150

Component	Wt. %	Component	Wt. %	Component	Wt. %
C	0.18	Mn	0.25	S	0.015
Cr	13	Ni	2	Si	0.25
Fe	81	P	0.02	W	3

Material Notes:

Iron content calculated as remainder. Data provided by Allvac.

Applications: Compressor blades, vanes, disks, shafts, wheels, fasteners, gas turbine and jet engine components.

Physical Properties	Metric	English	Comments
Density	<u>7.86 g/cc</u>	0.284 lb/in ³	

Mechanical Properties

Hardness, Rockwell B	130	130	As reported by the manufacturer. Beyond normal Rockwell B hardness range.
Tensile Strength, Ultimate	<u>1172 MPa</u>	170000 psi	
Tensile Strength, Yield	<u>1034 MPa</u>	150000 psi	0.2% Offset
Elongation at Break	<u>10 %</u>	10 %	
Reduction of Area	<u>32 %</u>	32 %	

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.