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AM 155 Data sheet

AM 155 Stainless Steel offers a combination of high strength and hardness, corrosion resistance plus excellent mechanical properties. AM 155 is the ferrite-free version of AM 174. Both alloys are widely used in the aerospace, chemical, petrochemical, food processing, and paper industries.

Alloy Highlights

Good Mechanical Properties
 High Strength
 Good Oxidation Resistance
 Good Corrosion Resistance

Mechanical Properties (as Sintered)		
Test	Horizontal	Vertical
Tensile Strength	167 +/- 7 Ksi	152 +/- 7 Ksi
Yield Strength	152 +/- 7 Ksi	145 +/- 7 Ksi
Elongation at break	15 +/-5 %	16 +/-5 %
Hardness (HRC)		35
Density (lb/in ²)		0.28
E Modulus (Msi)		28.5

Chemistry		
Element	Range (%)	
	Min	Max
Fr	Balance	
Cr	14	0.006
Ni	3.5	0.01
Cu	2.5	4.5
Mn		1
Si		1
Mo		0.5
Nb	0.15	0.45
C		0.07

Typical Applications

Chemical & Petrochemical
 Pulp & paper
 Food processing
 Aerospace

Applicable Chemistry Specifications

AMS 5659 UNS S15500 ASTM A564
 AMS 5862 DIN 1.4545 ASTM A693