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## AM Co75 Data Sheet

AM Co75 is a non-magnetic alloy consisting of cobalt-chromium-molybdenum. It exhibits superior strength, corrosion and wear resistance. AM Co75r is the powder metallurgy version of ASTM F 1537 as well as a low carbon version of the wrought ASTM F75 cast alloy.

### Alloy Highlights

- Corrosion Resistant
- High Yield & Tensile Strength
- High Hardness
- High Fatigue Strength

### Typical Applications

- Gas Turbine Components
- Biomedical Joint Replacement
- Biomedical Fracture Fixation Devices
- General Hardfacing

Mechanical Properties (as Sintered)		
Test	Horizontal	Vertical
Tensile Strength	195 +/-15 ksi	175 +/-20 ksi
Yield Strength	155 +/-15 ksi	115 +/-15 ksi
Elongation at break	10 +/-2%	25 +/-3%
Hardness (HRC)		40
Density (lb/in <sup>3</sup> )		0.3

Chemistry		
Element	Range (%)	
	Min	Max
Cr	26.50	30.00
Mo	5.00	7.00
Ni		0.10
Fe		0.75
C		0.15
Si		1.00
Mn		1.00
Co	Balance	
S		0.01
P		0.02
Al		0.10
Ti		0.10
W		0.20
B		0.01
N		0.25
O		0.04

### Applicable Chemistry Specifications

ASTM F75	ASTM 1537	ASTM F799
UNR31538	ISO 5832-4	ISO 5832-12