

ATI Allvac® M-50 Specialty Steel, Heat Treatment: 1107°C (2025°F) Q+T

Category : Metal , Ferrous Metal , Tool Steel

Material Notes:

Data provided by Allvac.Applications: Bearing applications, including turbine engine main shaft bearings. Cutting tools.

Order this product through the following link:

http://www.lookpolymers.com/polymer_ATI-Allvac-M-50-Specialty-Steel-Heat-Treatment-1107C-2025F-QT.php

Physical Properties	Metric	English	Comments
Density	7.78 g/cc	0.281 lb/in ³	

Mechanical Properties	Metric	English	Comments
Hardness, Brinell	688	688	Estimated from Rockwell C value for Brinell test with 3000 kg load/10 mm diameter ball
Hardness, Knoop	769	769	Estimated from Rockwell C value.
Hardness, Rockwell C	62	62	
Hardness, Vickers	740	740	Estimated from Rockwell C value.

Component Elements Properties	Metric	English	Comments
Carbon, C	0.80 %	0.80 %	
Chromium, Cr	4.0 %	4.0 %	
Copper, Cu	0.050 %	0.050 %	
Iron, Fe	89 %	89 %	as balance
Manganese, Mn	0.18 %	0.18 %	
Molybdenum, Mo	4.3 %	4.3 %	
Nickel, Ni	0.20 %	0.20 %	
Phosphorous, P	0.0080 %	0.0080 %	
Silicon, Si	0.13 %	0.13 %	
Sulfur, S	0.0080 %	0.0080 %	
Tungsten, W	0.13 %	0.13 %	
Vanadium, V	1.0 %	1.0 %	

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