

AMS 5667, AMS 5542, AMS 5598 - X750 NICKEL ALLOY

Alloy X750 (AMS 5542, AMS 5598, AMS 5667) is a precipitation-hardenable nickel chromium alloy, offering good strength and corrosion resistance at elevated temperatures. Nickel Alloy X750 can be used in applications that range from gas turbines and rocket engines, to springs and fasteners used at cryogenic temperatures.

Specific Gravity																																																																			
Typical Applications			Related Specifications																																																																
Gas Turbines Rocket Engines Springs			AMS 5542 AMS 5598 AMS 5667 ASTM B637																																																																
Chemical Composition (Wt %)																																																																			
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Typical Mechanical Properties																																																																			
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 40%;"></th> <th style="width: 10%;">0.2% Proof Stress</th> <th style="width: 15%;">Tensile Strength</th> <th style="width: 15%;">Elongation</th> <th style="width: 15%;">Reduction of area</th> <th style="width: 5%;">Hardness</th> </tr> </thead> <tbody> <tr> <td></td> <td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td style="text-align: center;">Content</td> <td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td></td> <td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td></td> <td></td><td></td><td></td><td></td><td></td> </tr> </tbody> </table>							0.2% Proof Stress	Tensile Strength	Elongation	Reduction of area	Hardness							Content																																																	
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* This data has been supplied in good faith and is indicative only. It has been provided for general information purposes only and is not to be relied upon in place of the full specification. Mechanical properties can vary considerably with different supply conditions such as heat treatment or temper and product dimensions.

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General Enquiries

T: +44 (0) 1525 217 556 [\(tel:+4401525217556\)](tel:+4401525217556)

E: sales@dynamicmetalsltd.com [\(mailto:sales@dynamicmetalsltd.com\)](mailto:sales@dynamicmetalsltd.com)



UK Address:

Head Office

40 Eden Way
Chartwell Business Park
Leighton Buzzard
Bedfordshire
LU7 4FY

T: +44 (0)1525 217 556 [\(tel:+441525217556\)](tel:+441525217556)

Conversion Centre

Suite 2 Meadowhall Riverside
Meadowhall Road
Sheffield
South Yorkshire
S9 1BW

T: +44 (0)1143 030 320 [\(tel:+4401143030320\)](tel:+4401143030320)

Registered Office (only)

The Granary
Crowhill Farm Ravensden Road
Wilden
Bedfordshire
MK44 2QS

T: +44 (0)1525 217 556 [\(tel:+441525217556\)](tel:+441525217556)



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