

## A286 STAINLESS STEEL SHEETS - AMS 5525

A286 is a precipitation hardenable alloy. High nickel and chromium content gives it a good resistance to corrosion up to about 1300 Deg C and Oxidation up to about 1500 Deg F. A286 (UNS S66286) can be age hardened to a high strength level. The alloy is also used for low temperature applications requiring a ductile, non-magnetic high strength material at temperatures ranging from above room temperature down to at least -320 Deg F, The alloy may be used for moderate corrosion applications in aqueous solutions.

<b>Specific Gravity</b>													
7.9 g/cm <sup>3</sup>													
<b>Typical Applications</b>							<b>Related Specifications</b>						
General Aerospace Engine Hardware							<b>AMS 5525</b>  <b>AMS 5858</b>  <b>UNS S66286</b>						
<b>Chemical Composition (Wt %)</b>													
	<b>C</b>	<b>Mn</b>	<b>P</b>	<b>S</b>	<b>Si</b>	<b>Cr</b>	<b>Ni</b>	<b>Mo</b>	<b>Ti</b>	<b>V</b>	<b>Al</b>	<b>B</b>	<b>Fe</b>
<b>Min</b>	-	-	-	-	-	13.5	24	1	1.9	0.10	-	0.003	-
<b>Max</b>	0.08	2.0	0.025	0.025	1	16	27	1.5	2.35	0.50	0.035	0.010	Bal
<b>Typical Mechanical Properties in Solution Treated Condition</b>													
<b>0.2% Proof Stress</b>										<b>Tensile Strength</b>	<b>Elongation</b>		
MPA										MPA	%		
275										620	40		

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