

17-7PH STAINLESS STEEL - AMS 5528, AMS 5529, AMS 5644

17-7 is a precipitation hardenable stainless steel. It develops its strength and hardness through heat treating. This makes it well suited for applications that require good formability, high strength/hardness and minimum distortion upon heat treating. 17-7 stainless steel also provides benefits for other applications requiring high strength and good corrosion resistance, as well as excellent properties for flat springs at temperatures up to 315°C (600°F).

Specific Gravity

7.81 g/cm3

Typical Applications	Related Specifications
Chemical processing equipment	AMS 5528
	AMS 5644
Oil and Petroleum refining equipment	AMS 5529
Food processing equipment	Mil S 25043
	UNS S17700

Chemical Composition (Wt %)

	С	Mn	Р	s	Si	Ch	Ni	Al	Cr	Fe
Min	_	_	_	_	_	16.00	6.50	0.75	16	Bal
Мах	0.09	1.00	0.04	0.03	1.00	18.00	7.75	1.50	18	_

Typical Mechanical Properties after Heat treatment (AMS 5528)

	0.2% Proof Stress Tensile Strength		Elongation	Hardness
	MPA	MPA	%	HRC
Min	1035	1241	4	38
Мах	-	1448	6	46

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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 tumply conditions such as heat treatment or temper and product dimensions.

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General Enquiries

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

E: 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)

Conversion Centre

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

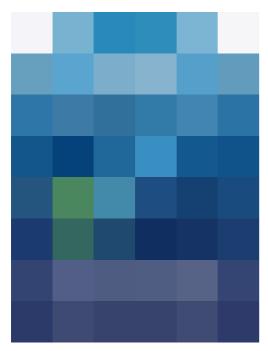
T: +44 (0)1143 030 320 (tel:+4401143030320)

Registered Office (only)

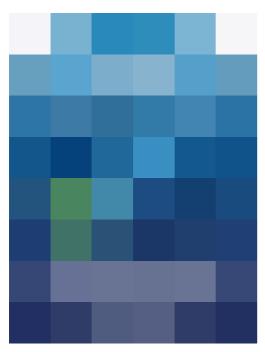
The Granary Crowhill Farm Ravensden Road Wilden Bedfordshire MK44 2QS

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

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