## Austenitic Chromium-Nickel Stainless Steel Sheet



#### Service. Quality. Value.

# **Typical Applications**

- Aerospace fabrication
- Panels
- Bodywork
- Blanking panels
- Space frames

#### **Product Description**

Austenitic chromium-nickel stainless steel stabilised with titanium. The material is available in soft annealed sheet and strip and is suitable for low strength components requiring good corrosion resistance and cold workability. Good weldability. Tensile strength (Rm) 540 N/mm2. BS S526 is the British aerospace standard for stainless steel 321, and is often supplied dual-certified to the U.S. aerospace specification AMS 5510.

### Cold Working

Good cold workability

## **Key Features:**

- Added Titanium
- · Good corrosion resistance and cold workability
- Low strength applications
- Available in hardened/tempered steel or strip
- Good weldability

### **Corrosion Resistance**

Good corrosion resistance

Weldability

Good weldability

Availability

Sheet, strip

Chemical Comp	osition	(weigh	t %)						
Weight (%)	С	Si	Mn	Cr	Мо	Р	S	Ni	Ti
Min		0.2	0.5	17.0				9.0	5XC
Max	0.08	1.0	2.0	19.0	1.0	0.035	0.025	11.0	0.70

Mechanica	Il Properties (softene	d condition)				
Grade	Tensile Strength (Rm)	Yield Strength	Elongation ((%)	Ruling Section		
	N/mm <sup>2</sup>	N/mm <sup>2</sup>				
S526	540	210	30	<1.5mm		
S526	540	210	35	1.5-3.0mm		
S526	540	210	40	> 3.0 mm		

### **Technical Assistance**

Our knowledgeable staff backed up by our resident team of qualified metallurgists and engineers, will be pleased to assist further on any technical topic.

UK Service Centres:			Quality & Testing:	
Smiths Belfast 02895 908 897	Smiths Leeds	0113 307 5167		
Smiths Biggleswade 01767 604 704	Smiths Manchester	0161 794 8650		
Smiths Birmingham 0121 728 4940	Smiths Norwich	01603 789 878		
Smiths Bristol 0117 971 2800	Smiths Nottingham	0115 925 4801		
Smiths Chelmsford 01245 466 664	Smiths Redruth	01209 315 512		
Smiths Gateshead 0191 469 5428	Smiths Verwood	01202 824 347	1930	
Smiths Horsham 01403 261 981	Main Office	0845 527 3331	www. <b>smithmetal</b> .com info@ <b>smithmetal</b>	.cor

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