

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 Composition (weight %)

Weight (%)	C	Si	Mn	Cr	Mo	P	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

Mechanical Properties (softened condition)

Grade	Tensile Strength (Rm) N/mm ²	Yield Strength N/mm ²	Elongation ((%)	Ruling Section
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:

Smiths Belfast 02895 908 897
 Smiths Biggleswade 01767 604 704
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