BS S526

Smiths Advanced Metals

Formable & Weldable

Titanium-stabilised stainless steel sheet.

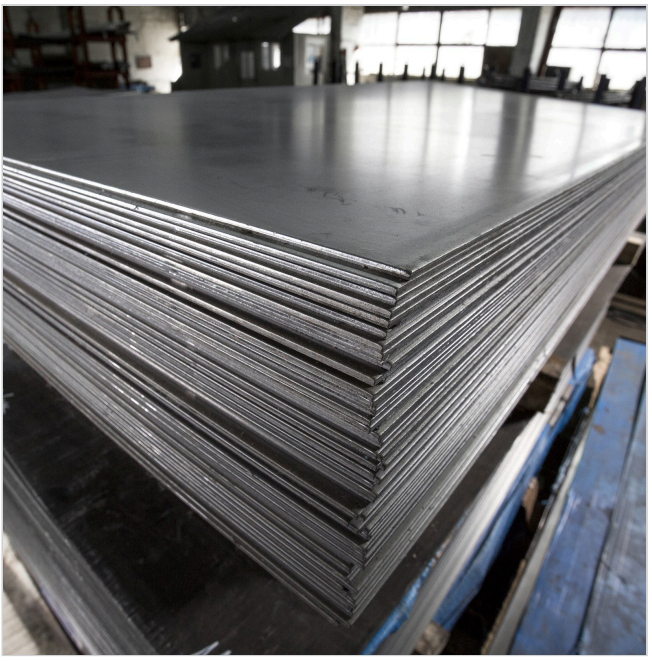
BS S526 is the British aerospace specification for Type 321 stainless steel sheet and strip: an austenitic chromium-nickel steel stabilised with titanium.

Supplied in the softened condition, it offers good corrosion resistance, good cold workability and good weldability for low-strength parts.

Titanium prevents chromium carbide forming during welding, so welded joints resist intergranular corrosion. The sheet is often dual certified to AMS 5510.

The sheet can be pressed, bent and formed into complex parts, and keeps good strength and toughness at sub-zero temperatures.

We stock BS S526 stainless steel as softened sheet and strip.



Grades / Specifications

- BS S526
- AMS 5510
- Type 321 / UNS S32100
- W.Nr 1.4541

Benefits

- Good corrosion resistance
- Good cold workability
- Good weldability

Chemical Composition (weight %)

	C	Si	Mn	P	S	Cr	Ni	Mo	Ti
min.		0.20	0.50			17.0	9.0		5×C
max.	0.08	1.00	2.00	0.035	0.025	19.0	11.0	1.00	0.70

Mechanical Properties (softened condition)

Thickness	Tensile Strength (MPa)	Proof Stress (MPa)	Elongation (%)
Under 1.5 mm	540	210	30
1.5–3.0 mm	540	210	35
Over 3.0 mm	540	210	40

Key Applications

- Aerospace fabrications
- Panels & bodywork
- Blanking panels
- Space frames
- Welded assemblies

General Engineering

For non-aerospace work, we also stock 321 stainless steel sheet to ASTM A240 in the annealed condition.

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ISO 9001 Quality Management Systems CERTIFIED
AS/EN 9100 Aviation Space and Defence CERTIFIED
EN 9120 Aviation Space and Defence CERTIFIED
UKAS TESTING 1930

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