

# S524

Smiths Advanced Metals

Rev: SAM/datasheets/stainless-steel-sheet/s524/feb-2022

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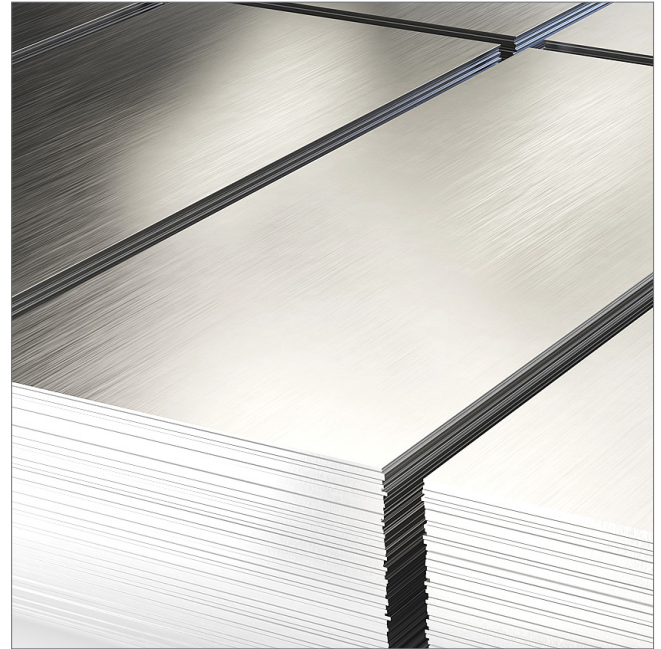
## Hardened Stainless Sheet & Strips

Sheet and strips stabilised with titanium.

S524 is an austenitic chromium-nickel stainless steel sheet product, typically used in aerospace applications for bodywork, blanking panels, space frames and general fabrication.

The alloy is available in cold rolled, or cold rolled and tempered delivery conditions and provides good cold workability. The material should be considered for applications where good corrosion resistance in the production of medium-strength components is a requirement. S524 offers good weldability, and typically tensile strength is 800 - 1100 N/mm<sup>2</sup> in the cold-rolled delivery condition.

We stock [S524 hardened/tempered stainless steel sheets and strips](#) in various thicknesses and provide in-house guillotining services to cut your sheets to size.



### Grades / Specifications

- BS S524
- BS S500

### Benefits

- Good resistance to corrosion
- Good weldability
- Good cold-forming properties
- Good workability

#### \* Chemical Composition (weight %)

	C	Si	Mn	Cr	Mo	P	S	Ni	Ti
min.		0.20	0.50	17.00				9.00	5XC
max.	0.08	1.00	2.00	19.00	1.00	0.035	0.025	11.00	0.70

\* As per BS S524

#### \* Mechanical Properties

Ruling Section	Tensile Strength R <sub>m</sub> , N/mm <sup>2</sup>	Yield Strength N/mm <sup>2</sup>	Elongation (%)
<1.5mm	800 - 1100	640 min	11 min
1.5 - 3.0 mm	800 - 1100	640 min	13 min
> 3.0 mm	800 - 1100	640 min	15 min

\* Properties as per BS S524

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