

Stainless Steel

3S144 (S144) Bar

Datasheet Updated
05 August 2021

SPECIFICATIONS

Commercial

3S144/S144

Aerospace stainless steel heat treated to provide extra tensile strength.

CHEMICAL COMPOSITION

Element	% Present
Carbon (C)	0.00 - 0.08
Chromium (Cr)	13.20 - 14.70
Nickel (Ni)	5.00 - 5.80
Manganese (Mn)	0.00 - 1.00
Phosphorous (P)	0.00 - 0.04
Sulphur (S)	0.00 - 0.03
Silicon (Si)	0.00 - 0.60
Niobium (Columbium) (Nb)	0.10 - 0.40
Molybdenum (Mo)	1.20 - 2.00
Copper (Cu)	1.20 - 2.00

ALLOY DESIGNATIONS

- BS S143
- BS 3S144
- BS S145
- FV520B
- DEFSTAN 95-14

SUPPLIED FORMS

- Bar

APPLICATIONS

- Aerospace components
- Military components
- High technology applications
- Automotive components
- Industrial bearings
- Precision parts

CHARACTERISTICS

- High strength alloy
- Heat treated for added tensile strength
- Identical chemical composition to S143 but greater strength alloy
- Moderate to good corrosion resistance

MECHANICAL PROPERTIES

Property	Value
Tensile Strength	1130-1330 MPa
Elongation A50 mm	12 %
Hardness Brinell	341 HB
Tensile Strength	1030 N/mm ²

DISCLAIMER

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