

MATERIAL DATA SHEET · NICKEL ALLOYS

Nickel 200 / 201 (UNS N02200 / N02201) — Chemical Composition & Mechanical Properties

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Nickel 200 / 201 (UNS N02200 / N02201) is a nickel alloys grade for pure nickel forgings, fittings & pipe (UNS N02200 / N02201, EN / W.Nr 2.4066 / 2.4068). This sheet summarises its chemical composition limits, minimum mechanical properties, heat treatment and typical service. Teshi Group manufactures flanges and fittings in this grade.

At a glance

Material family	Nickel alloys
Product form	Pure nickel forgings, fittings & pipe
UNS	N02200 / N02201
EN / W.Nr	2.4066 / 2.4068
Also known as	Nickel 200 / 201

Mechanical properties

Tensile strength, min	380 MPa
Yield strength (0.2 % offset), min	105 MPa
Elongation, min	40 %
Nickel 201 tensile, min	345 MPa
Nickel 201 yield, min	70 MPa (ASTM B160)
Hardness	Not specified

Chemical composition (weight %)

Ni 99.0 min	Cu 0.25 max	Fe 0.40 max	Mn 0.35 max	C 0.15 max (200), 0.02 max (201)
Si 0.35 max	S 0.01 max			

Single values are maximums unless shown as a range or "min".

Heat treatment

Annealed

Typical service

Caustic soda, food processing and synthetic fibre plants; 201 above 315 °C

International equivalents (nearest)

USA — specification	Nickel 200 / 201 (UNS N02200 / N02201)
USA — UNS	N02200 / N02201
Europe — EN designation	Ni99.2 / LC-Ni99
Europe — W.Nr	2.4066 / 2.4068
Japan — JIS	NW2200 / NW2201
China — GB / NB	N6 / N5 (GB/T 5235)
China — old GB designation	N6
UK — BS (withdrawn)	NA11 / NA12

Same alloy in other product forms

Flanges & forged fittings	ASTM B564 N02200 / B160 bar
Butt-weld fittings	ASTM B366 WPN / WPNL
Seamless pipe	ASTM B161 N02200 / N02201
Plate	ASTM B162 N02200 / N02201

Teshi Group — OEM manufacturer of flanges, pipe fittings, fasteners, valves and fabrications; stockist and supplier of pipes, plates and structural steel. ISO 9001:2015 · IBR approved · since 1971. Enquiries: info@teshigroup.com · sales@teshigroup.com · +91 78900 09110

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