

304 Stainless steel

Typical Analysis (Ave. values %)	C	Si	Mn	Cr	Ni	S	P
	0.05	0.5	1.4	18.5	9.50	< 0.030	< 0.045
NEAREST STANDARD	AS		DIN		SIS		AISI
	304		1.4301 X5CrNi18-10		2332		304

DESCRIPTION	<p>ASSAB 304 Austenitic stainless steel offers good strength and excellent corrosion resistance. 304 is the most versatile, and the most widely applied of the 300 series commonly known as 18/8 Stainless Steel. 304 has excellent welding characteristics, post weld annealing is not necessary.</p> <p>Forming- Very good drawing properties enables forming of complex shapes.</p> <p>Corrosion resistance- Exhibits excellent resistance to a wide range of chemical, petroleum, textile, and food industry exposures.</p>
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APPLICATIONS	Architectural purposes, household appliances, catering equipment, cutlery industry, medical equipment, automotive industry, sanitary equipment.
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MECHANICAL PROPERTIES ≤ 160 mm	Tensile Strength MPa	Yield Strength MPa	Elong %	Impact strength J
	500-700	190	45	100

HEAT TREATMENT	Quench temperature (Annealing)	1020-1100°C
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PHYSICAL PROPERTIES	Density (kg/dm ³)	7.90
	Modulus of elasticity 10 ³ N/mm ²	200
	Thermal conductivity W/(m.K)	15
	Electric resistivity Ohm.mm ² /m	0.73
	Specific heat capacity J/(kg.K)	500
	Thermal expansion 10 ⁶ m/(m.K)	16

WELDING	Use Fox EAS 2-A electrodes, EAS 2-IG MIG or TIG Wire.
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SIZE RANGE	Round	4.76 to 19.05 mm Drawn 19.05 to 101.6 Peeled & Polished to H10
	Square	16 to 20 mm Drawn
	Flat	25.4 x 3.18 to 100 x 12 mm
	Angle	25 x 25 x 3 to 75 x 75 x 10 mm

<u>LOCATIONS</u>				
Bohler Uddeholm Australia Pty Ltd ABN 15000013052				
Sydney	129-135 McCredie Rd Guildford	2161	Ph (02) 8724 5554	Fax (02) 8724 5555
Newcastle	3 Pavilion Pl Cardiff	2285	Ph (02) 4954 6611	Fax (02) 4956 5773
Albury	1 Eames St Albury	2640	Ph (02) 6041 3399	Fax (02) 6041 1820
Wollongong	40 Doyle Ave Unanderra	2526	Ph (02) 4272 6544	Fax (02) 4272 7563
Marayong	1/21 Binney Rd Marayong	2148	Ph (02) 9831 4431	Fax (02) 9671 1682
Melbourne	282-290 Greens Rd Dandenong	3175	Ph (03) 9767 5554	Fax (03) 9767 5555
Bayswater	4 Amsted Rd Bayswater	3153	Ph (03) 9739 8022	Fax (03) 9739 8033
Adelaide	1 Williams Cir Pooraka	5095	Ph (08) 8368 4554	Fax (08) 8368 4555
Brisbane	12-18 Limestone St Darra	4076	Ph (07) 3712 9554	Fax (07) 3712 9555
Townsville	9-11 Caldwell St Garbutt	4814	Ph (07) 4479 4800	Fax (07) 4725 1316
Perth	29-33 Gauge Cir Canningvale	6155	Ph (08) 9455 8672	Fax (08) 9455 8673
Kewdale	5 Beete St Welshpool	6106	Ph (08) 9350 9582	Fax (08) 9350 9683
Launceston	20 Murphy St Invermay	7248	Ph (03) 6334 3542	Fax (03) 6331 4001
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