

304 Austenitic 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>304 Austenitic stainless steel offers good strength and good 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>Corrosion resistance- Exhibits good 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

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WELDING	Use Bohler Welding Australia Avesta 308L
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Round Drawn h9										
SIZE RANGE	9.53	12	12.7	19.05						
Round Peeled & Polished h10										
SIZE RANGE	20	30	38.1	44.45	57.2	76.2	101.6			
	25.4	31.75	40	50.8	63.5	88.9				
Round Machined k12										
SIZE RANGE	100	120	139.7	150	180	230				
	110	130	140	160	200	260				

Sizes normally stocked in Australia. Some branches may not hold the entire range.

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