## 303 Austenitic Free machining stainless steel

Typical Analysis	С	Si Mn Cr .08 0.50 1.80 17.3		Cr		Ni	S	Р	
(Ave. values %)	0.08			3	8.3	0.25	0.025		
NEAREST STANDARD	AS		DIN		SIS		7	AISI	
	303		1.4305 X8CrNiS18-9		2346			303	

	APPLICATIONS	Free-cutting steel for components subjected to corrosion in mechanical and plant
١.	ALLEGATIONS	engineering, mass produced items such as screws, bolts, and nuts.

MECHANICAL	Tensile Strength	Yield Strength	Elong		
PROPERTIES	MPa	MPa	%		
<sup>™</sup> ≤ 160 mm	500-750	190	35		

HEAT TREATMENT	Quench temperature (Annealing)	1000-1100 Water, air.
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PHYSICAL	Density (kg/dm <sup>3</sup> )	7.90
PROPERTIES	Modulus of elasticity 10° N/mm <sup>2</sup>	200
	Thermal conductivity W/(m.K)	15
	Electric resistivity Ohm.mm <sup>2</sup> /m	0.73
	Specific heat capacity J/(kg.K)	500
]	Thermal expansion 10 <sup>6</sup> m/(m.K)	16



## voestalpine High Performance Metals (Australia) Pty Ltd

WELDING Not recommended, but if unavoidable use Bohler Welding Australia Avesta 308L
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Round Drawn h9									
SIZE RANGE	7.94	9.53	12.7	15.88	19.05				
Round Peeled and Polished h10									
SIZE RANGE	31.75								

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

Other sizes available on request.

Every care has been taken in listing this information, particularly specifications. Bohler Uddeholm Australia Pty Ltd will not accept responsibility for any loss or other damage caused to any person or Company as a result of the use of information contained herein

