		Austenitic Stainless Steel NAS 601						
NAS	AS	STM Designat		EN Designation				
		201			1.4372			
		S20100	X12CrMnNN17-7			7-5		
DESCRIPTION	CANCEL		stainless steel. It is corrosive application					-
CHEMICAL	С	Si	Mn	Р	S	Cr	Ni	N
COMPOSITION	≤ 0.150	≤ 1.00	5.50-7.50	≤ 0.060	≤ 0.030	16.00-18.00	3.50 - 5.50	≤ 0.25
	- Catering indu							
MECHANICAL	UTS		75 ksi min			10		6 6
PROERTIES AFTER	0.2% YS		38 ksi min		-			16
COLD ROLLING AND	Elongation Hardness		40% min max 95 HRB					3 3
FINAL ANNEALING	Hard	iness	max 95	нкв		542		
		a density of O	283 lb/in ³ and a s	pecific heat of	0.12 Btu/lb/°F	2 =		
PHYSICAL	At 68 °F, it has	a density of U.						
PHYSICAL PROPERTIES	At 68 °F, it has Modulus of Ela				28.6			
	Modulus of Ela	sticity (x10 ⁶ ps			28.6 9.2 x10 ⁻⁶			
	Modulus of Ela	sticity (x10 ⁶ ps Thermal Expans	i) sion, 68-212°F, /°I					

WELDING

Slightly lower weldability than NAS 120. It can be used with any welding method. AISI 308L as filler material can be used if necessary. Nitrogen content gases are recommended as protection. The heat-affected zone (HAZ) can be susceptible to intergranular corrosion.

CORROSION	NAS 601 is linked to basic applications, therefore it has not been necessary for a detailed study of its behavior in different					
RESISTENCE	corrosive media. It has less resistance to general corrosion than NAS 120.					
PITTING AND	The resistance to crevice and pitting corrosion of the NAS 601 grade is between the ferrtic stainless steel NAS 501 and the					
CREVICE	austenitic stainless steel NAS 120					
CORROSION						
STRESS CORROSION	Austenitic stainless steels are susceptible to SCC when presenting tensile residual stresses and being in chlorine media at					
CRACKING	temperatures above 140°F.					
ATMOSPHERIC CORROSION	NAS 601 is not recommended in marine and industrial environments. It presents an acceptable behavior in urban and rural					
CORROSION	ones, but necessitates more frequent cleaning and maintenance than ordinary austenitic stainless steels.					
SURFACE	Wash the surface with neutral soap and water applied with a cloth or a brush without scratching the surface. Then, always					
CLEANING	rinse the stainless steel with water to remove completely the cleaning agent.					
SPECIFICATIONS	It can be delivered according to ASTM, ASME, and EN standards requirements.					
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