



CHEMICAL ANALYSIS

GRADE OF STEEL	AISI (USA)	C %	SI %	Mn %	P %	S %	Cr %	Mo %	Ni %	OTHER ELEMENTS
AUSTENITIC	304	0,07	1,00	2,00	0,045	0,030	16,00 - 19,00		8,00 - 10,00	N<0,11
	316	0,07	1,00	2,00	0,045	0,030	16,00 - 18,00	2,5 - 3,00	11,5 - 14,00	N<0,11

MECHANICAL FEATURES

TYPE OF STEEL	AISI (USA)	THICKNESS	IMPROVE	HB MAX	STRESS Rp 0,2 N/mm ² min	STRESS Rp 1,0 N/mm ² min	TENSILE STRENGTH Rm N/mm ²	BREAKING ELOGATION A% min		CVN (ISO-V)		INTERGRANULAR CORROSION	
								TENSILE	SHEAR	TENSILE	SHEAR	AS	HOT WORK
AUSTENITIC	304	<160 160<250< span=""><250 <>	AT	215	190	225	500-700	45	-	100	-	YES	NO
								-	35	-	60		
	316			215	200	235	500-700	40	-	100	-		NO

C=CARBON SI=SILICON Mn= MAGNESIUM P= PHOSPHATE

S=SULPHUR Cr=CHROME Mo=MOLYBDENUM Ni=NICKEL