Quality F22 cl.3 (ASTM A182)

PROPERTIES AND EMPLOYEMENTS

F22 cl.3 (102CrMo9-10), is the most commonly used for the applications where it is required a good resistance to creep up to 600°c, for example in thermal and nuclear power plants and for rotors or pipings that transport hot fluids under pressure.

CORRESPONDENCE TO INTERNATIONAL DESIGNATIONS

Quality	Europe	Germany		France	Spain	G.B.	USA
	EN	DIN	W.n.	AFNOR	UNE	B.S.	ASTM
F22 cl.3	**10CrMo9-10 EN 10222-2**	**~ 10CrMo9-10**	**1,7380**	**~ 12CD9-10**	**F2632**	**622-515**	**ASTM A182 F22 ASME SA 182**

CHEMICAL ANALYSIS

C	Mn	Si max	P max	S max	Cr	Mo
0,05 ÷ 0,15	**0,30 ÷ 0,60**	**0,50**	**0,040**	**0,040**	**2,00 ÷ 2,50**	**0,87 ÷ 1,13**

Concentration limits of the elements that are not indicated in the table can be deduced in the en 10020 regulation.

MECHANICAL CHARACTERISTICS

Steel	Normalisation temperature 900°c min – tempering temperature 620°c min				
Symbolic	R_e min	R_m min	A min	Z min	Durezza HB
	N/mm^2		%	%	max
F22	**310**	**515**	**20**	**30**	**156÷207**

USUALLY AVAILABLE EX STOCK

M.T. Coloration	Quality	Heat treatment	Surface
	F22 cl.3	Normalised and stress relieved	rolled / forged turned
	F22 cl.3	Annealed	rolled