



Quality ASTM A105 (EN 10083-3)

CORRESPONDENCE TO INTERNATIONAL DESIGNATIONS

Quality	Europe	Germany		France	Spain	G.B.	USA
	EN	DIN	W.n.	AFNOR	UNE	B.S.	AISI/SAE
ASTM A105	~S355JR	-	-	-	-	-	-

CHEMICAL COMPOSITION % (ASTM A105)


Steel designation	Chemical composition												
	C max	Si	Mn	P max	S max	Cu max	Ni max	Cr max	Mo max	V max	Nb max	Cu+Ni+Cr+Mo max	Cr+Mo max
ASTM A105	0,35	0,10 ÷ 0,35	0,60 ÷ 1,05	0,035	0,040	0,40	0,40	0,30	0,12	0,08	0,02	1,00	0,32

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

MECHANICAL CHARACTERISTICS (EN 10083-3)

Steel quality	Tensile testing					
	Unified tensile strength R	Deviation from proportionality $R_{p0,2 \text{ min}}$		Elongation A min	C min	HB max
	N/mm ²	N/mm ²		%	%	-
ASTM A105	485	250		22	30	187

USUALLY AVAILABLE EX STOCK

M.T. Coloration	Quality	Heat treatment	Surface
	A105	Natural	rolled reeled forged turned