



NIMET

CT

CHROME PLATED STEEL TUBES

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NIMAX CT

E355+SR | P460N+N | 20MnV6

CT

● STEEL GRADES CORRESPONDENTS

EN	Werkstoff	DIN	B.S.	UNI	JIS	GOST	AISI / SAE / ASTM
E355	1.0580	St52	CFS5	Fe510	STKM19A	St6sp	1524 / 1024
P460N	1.8905	StE460	55C	FeE460KG	-	18G2AF	-
-	1.5217	20MnV6	55M	-	-	-	A572

● CHEMICAL COMPOSITION - IN % BY WEIGHT

Steel grade	C	Si	Mn	P	S	Cr	Mo	Ni	V	Cu	N
E355	max. 0.22	max. 0.55	max. 1.60	max. 0.025	max. 0.025	-	-	-	-	-	-
P460N	max. 0.20	max. 0.60	1.00 ÷ 1.70	max. 0.025	max. 0.020	max. 0.30	max. 0.10	max 0.80	max. 0.20	max. 0.70	max. 0.020
20MnV6	0.16 ÷ 0.22	0.10 ÷ 0.50	1.30 ÷ 1.70	max. 0.035	max. 0.035	-	-	-	0.08 ÷ 0.20	-	-

⁽¹⁾ Cr+Mo+Ni = max. 0.63

● MECHANICAL PROPERTIES

Steel grade	Tensile strength	Yield point	Elongation (longitudinal)	Impact energy (longitudinal direction)	Hardness ⁽³⁾	Norm
	R _m N/mm ²	R _{p0.2} N/mm ²	A ₅ %	KV ₂ J	Brinell N/mm ²	
E355+SR	min. 580	min. 450	min. 10	(min. 27J / -20°C) ⁽²⁾	min. 175	EN 10305-1
E355+C	min. 640	min. 540 ⁽⁴⁾	min. 4	-	min. 185	EN 10305-2
P460N+N	560 - 730	min. 460 ⁽¹⁾	min. 19	min. 40J / -20°C	170 - 220	EN 10216-3
20MnV6+N	550 - 800	min. 450	min. 20	min. 27J / -20°C	165 - 240	Technical data according to internal norm

SR = stress-relieved, N = normalized, C = cold drawn

⁽¹⁾ Wall thickness ≤ 12 mm

⁽²⁾ On request

⁽³⁾ The hardness values is for information only

⁽⁴⁾ The Yield Point value is for information only