

Series	Description
NIMAX-CTI	Internal Hard Chrome Plated Steel Tubes steel grade: E355 / ID: Ø70 - 200 mm

Steel grades correspondents

EN	Werkstoff	DIN	B.S.	UNI	JIS	GOST	AISI SAE ASTM
E355	1.0580	St52	CFS5	Fe510	STKM19A	St6sp	1524 / 1024

Chemical composition - in % by weight

Steel grade	C	Si	Mn	P	S
E355	max. 0.22	max. 0.55	max. 1.60	max. 0.025	max. 0.040

Mechanical properties

Steel grade	Tensile strength R_m N/mm ²	Yield point $R_{p0.2}$ N/mm ²	Impact energy KV J	Elongation A_5 %	Hardness *** Brinell N/mm ²	Norm
E355+SR	min. 580	min. 450	(27 J / -20° C) **	min. 10	min. 175	EN 10305-1

SR = stress-relieved,

* The Hardness value it is for information only

** on request

Internal Hard Chrome Plated Steel Tubes

steel grade: E355



Series **NIMAX-CTI - E355+SR / EN 10305-1**

Outside diameter - OD	Ø80 - 216 mm
Inside diameter - ID	Ø70 - 200 mm
Inside tolerance - ID	ISO H8 / ISO H9
Outside tolerance - OD	according to EN 10305-1
Roundness - OD	within the limits of the diameter tolerances
Roundness - ID	within the limits of the diameter tolerances
Standard length	requested by specification, but max. 1100 mm
Surface roughness - ID	Ra: max. 0.30 µm
Chrome layer thickness	max. 30 µm
Chrome layer microhardness	min. 900 HV0.1
Straightness	max. 0.4 mm/1000 mm

✓ For a niche market, the concrete pumps sector, NIMET has developed the optimal solution for elongating the service life of the delivery cylinders.

✓ The chrome layer protects the inside surface from corrosion and improves the durability through abrasion tolerance.

Table of dimensions - ID tolerance

Diameter mm	ISO H8 µm	ISO H9 µm
50 < Ø ≤ 80	0 / +46	0 / +74
80 < Ø ≤ 120	0 / +54	0 / +87
120 < Ø ≤ 180	0 / +63	0 / +100
180 < Ø ≤ 200	0 / +72	0 / +115

Standard dimensions range

	80	90	105	110	125	150	160	170	216
Outside diameter mm									
Inside diameter mm	70	80	90	95	110	120	135	145	200
Wall thickness mm	5	5	7.5	7.5	7.5	15	12.5	12.5	8
	-	-	-	-	12.5	-	-	-	-

* other dimensions on request