CPDUR®1000 [1.7734/15CDV6] -
Technical information and benefits

Due to its excellent mechanical properties, CPDUR®1000 meets the requirements of **international quality and safety standards.** The special remelting process, results in an extremely pure and homogenic material. It is excellently suitable for service temperatures ranging from **-75°C to +500°C** and the production of components intended for application ranges with maximum demands:

- Safety structures
- Safety cages
- Suspension components
- Driveshafts
- Track and push rods
- Aviation safety structures
- etc.

a Nedschroef company

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High Performance Materials - Less Weight, Excellent Safety!

The perfect solution for applications with stringent requirements:

motorsports	high performance cars	aviation

CP Tech in cooperation with Benteler Steel/Tube **always keeps extensive stocks** of a wide range of cold drawn tubes made of the material:

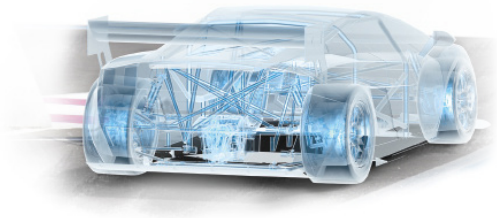
CPDUR®1000 [1.7734/15CDV6]
CPDUR®500 [25CrMo4/1.7218]

We also offer a large quantity of
- sheet metal
- welding rods
- round / square material
- flat steel

The material is cut to the specifications in your CAD drawings by means of a laser process.

The air-hardenend tubes and all sheet metals **satisfy international standards** and can be **traced back to original batch.**

Acceptance test certificates according to EN 10204-3.1 B are available on request for all materials.



a Nedschroef company

in cooperation with BENTELER

High Performance Materials

Development - Production - Sales

CPDUR®1000 [1.7734/15CDV6]

MATERIAL PROPERTIES

Material number	Tensile strength	Yield strength	Elonga-tion
	[MPa]	[MPa]	[%]
CPDUR®1000 1.7734.4 1.7734.5	 > 700 980 - 1180	 > 550 > 790	 > 7 > 6
CPDUR®500 25CrMo4	 540-900	 350-700	 > 12
For comparison:			
SAE 4130	650 - 1030	480 - 930	> 6

WELDABILITY

Carbon Equivalent

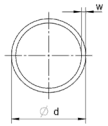
	1.7734	25CrMo4	4130
CET	0.40	0.41	0.42
PCM	0.35	0.37	0.40

CHEMICAL COMPOSITION

	1.7734	25CrMo4	4130
C [%]	0.12-0.18	0.22-0.29	0.28-0.33
Cr [%]	1.25-1.50	0.90-1.20	0.80-1.10
Mn [%]	0.80-1.10	0.60-0.90	0.40-0.60
Mo [%]	0.80-1.00	0.15-0.30	0.15-0.25
V [%]	0.20-0.30		
Si [%]		0.15-0.35	0.15-0.35

TUBES CPDUR®1000

Dimensions in mm
Outer Ø x wall thickness
10 - 45 x 1.0 - 4.0

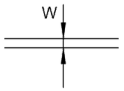


ROUND MATERIAL CPDUR®1000

All dimensions on request

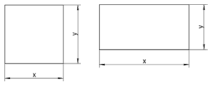
CUT SHEET METAL CPDUR®1000

Thickness in mm
0.8 / 1.0 / 1.2 / 1.5 / 2.0 / 2.5 / 3.0 / 4.0 /
5.0 / 6.0 / 8.0 / 10.0



FLAT STEEL CPDUR®1000

Thickness in mm
40 x 40 / 85 x 85 / 105 x 105 / 125 x 60



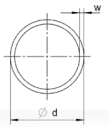
WELDING WIRE CPDUR®1000

All dimensions from 1mm Ø

CPDUR®500 [25CrMo4/1.7218]

TUBES CPDUR®500 [25CRMO4/1.7218]

Dimensions in mm
Outer Ø x wall thickness
40 / 45 / 50 x 1.0 - 3.0



Additional information and dimensions available on request or via cp-tech.com/material/stock-list

Material Quality Standards - A Higher Level Of Strength

SPECIAL PROPERTIES

Its special properties ensure top-level quality:

- High yield strength and excellent welding properties
- Can be welded in both conditions (.4/.5) No subsequent heat treatment needed
- Very strong around the welded joint without additional hardening (UTS > 980 MPa)
- Tubes are demagnetised up to a residual field intensity of max. 12 A/cm
- Material standard: CPDUR®1000 according to WL 1.7734, and 15CDV6 AIR 9160C

Other materials available on request:
Titanium, aluminium, 17-4 PH, 15-5 PH etc.

MATERIALIZED STRENGTH