a Nedschroef company

High Performance Materials

Development - Production - Sales

in cooperation with
BENTELER makes it happen

CliMore a BENTELER brand

Sustainable performance without compromise

Through our collaboration with Benteler Steel/Tube and the use of CliMore Ambition/Green Steel, **our CPDUR® range** for use in motorsports achieves **up to 66% lower CO_2 emissions** compared to primary steel production.

CARBON REDUCED TUBES & PIPES
THE CORPORATE WAY TO CARBON NEUTRALITY

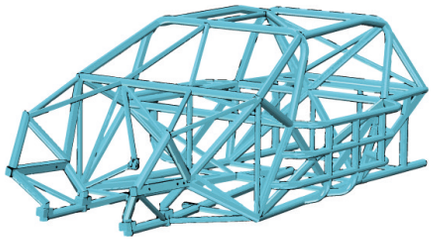
CliMore
More for the climate.

CPDUR®1000RS

Technical information and benefits

Due to its excellent mechanical properties, CPDUR®1000RS 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
- etc.



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High Performance Materials - Less Weight, Excellent Safety!

The perfect solution for applications with stringent requirements:

motorsports	high performance cars

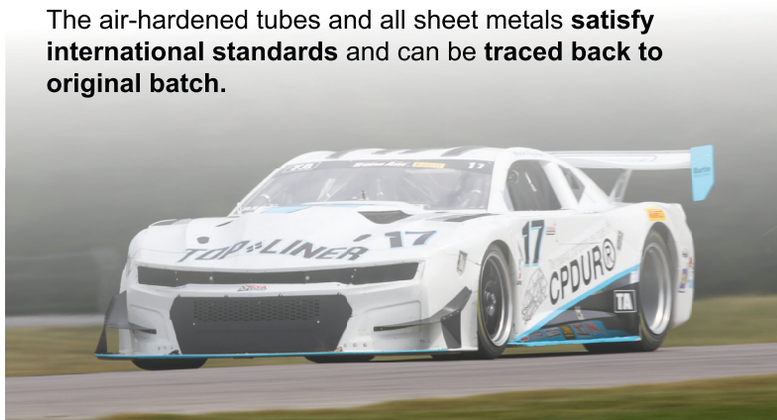
CP Tech in cooperation with Benteler Steel/Tube **always keeps extensive stocks** of a wide range of cold drawn tubes made of the material:

CPDUR®1000RS [15CrMoV6.9]
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-hardened tubes and all sheet metals **satisfy international standards** and can be **traced back to original batch.**



CPDUR®1000RS [15CrMoV6.9]

MATERIAL PROPERTIES

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

WELDABILITY

Carbon Equivalent

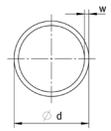
	CPDUR®1000RS	CPDUR®500	SAE 4130
CET	0.40	0.41	0.42
PCM	0.35	0.37	0.40

CHEMICAL COMPOSITION

	CPDUR®1000RS	CPDUR®500	SAE 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

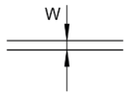
Materialized Strength by CP Tech

TUBES CPDUR®1000RS
Dimensions in mm
Outer Ø x wall thickness
10 - 45 x 1.0 - 4.0

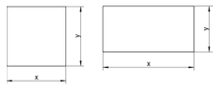


ROUND MATERIAL CPDUR®1000
All dimensions on request

CUT SHEET METAL CPDUR®1000
Thickness in mm
1.0 / 1.2 / 1.5 / 2.0 / 2.5 / 3.0 / 4.0 /
5.0 / 6.0 / 8.0 / 10.0



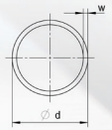
FLAT STEEL CPDUR®1000
Thickness in mm
40 x 40 / 85 x 85 / 105 x 105 / 125 x 60



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



Engineered for Performance. Designed for Precision.

SPECIAL PROPERTIES & QUALITY STANDARDS

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

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

Additional information and dimensions available on request or on our website.