

HR CP800-UC tube

High strength and high formability for robust chassis applications

CP800-UC is a complex phase advanced high-strength steel featuring a very fine grained bainitic matrix microstructure combined with a small fraction of ferrite and martensite phases. Together with a soft tube forming process, these material properties

result in a tube with a strength of at least 760 MPa with excellent formability. HR CP800-UC tube enables the design of relatively complex shaped components requiring high strength and good fatigue performance to be manufactured by a cold forming process.

Mechanical properties

	R _p (MPa)	R _m (MPa)	A (%)
CP800-UC tube	660-780	≥ 760	≥ 10

Chemical composition

Grade	C	Mn	Si	P	S	Al	Cr+Mo	Nb+Ti
	Max.	Max.	Max.	Max.	Max.		Max.	Max.
HR660Y760T-CP (VDA 239-100)	0.18	2.20	1.00	0.08	0.015	0.015 - 1.20	1.0	0.25
HDT760C (prEN 10338:2009)	0.18	2.50	1.00	0.08	0.015	0.015 - 1.20	1.0	0.25

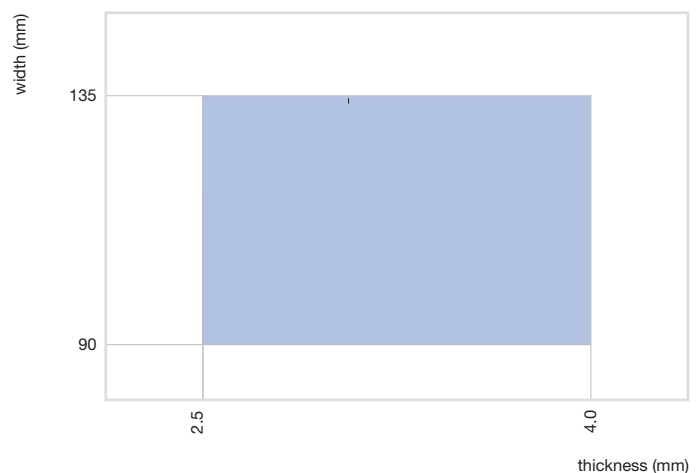
Applications

CP800-UC tubes are suitable to all parts that require high strength and excellent formability. Typically these can be found in chassis and suspension applications such as rear twist beams.

Dimensional window and tolerances

CP800-UC tube can be produced in various diameters ranging from 90 to 135mm with a wall thickness of 2.50 to 4.00mm. Dimensional tolerances follow EN 10305-3:2016, tighter tolerances are available on request.

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