

Seamless Steel Tubes for Elevated Temperatures - DIN17175

Seamless steel tubes for pressure purposes

Part 2: Non-alloy and alloy steel tubes with specified elevated temperature properties - EN10216-2

Application: for producing storage tanks of heat-resistant steels used in boiler-making, tool-making; for constructing pressure reservoirs and high pressure are simultaneously used to have summarized load and special conditions

DIN17175:

Mechanical Properties			
Grade	Yield Strength (Mpa)	Tensile Strength (Mpa)	Elongation (%)
ST35.8	≥ 235	360-480	25
ST45.8	≥ 255	410-530	21
15Mo3	≥ 275	450-600	20
13CrMo44	≥ 290	440-590	20
10CrMo910	≥ 280	450-600	18

Chemical Compositions(%)							
Grade	C	Si	Mn	P	S	Cr	Mo
ST35.8	≤ 0.17	0.10-0.35	0.40-0.80	≤ 0.040	≤ 0.040	/	/
ST45.8	≤ 0.21	0.10-0.35	0.40-1.20	≤ 0.040	≤ 0.040	/	/
15Mo3	0.12-0.20	0.10-0.35	0.40-0.80	≤ 0.035	≤ 0.035	/	0.25-0.35
13CrMo44	0.10-0.18	0.10-0.35	0.40-0.70	≤ 0.035	≤ 0.035	0.70-1.10	0.46-0.65
10CrMo910	0.08-0.15	≤ 0.50	0.40-0.70	≤ 0.035	≤ 0.035	0.20-0.25	0.90-1.20

EN10216-2:

Mechanical Properties				
Grade	Yield Strength (Mpa)	Tensile Strength (Mpa)	Elongation (%) L	Elongation (%) T
P195GH	≥ 195	320-440	27	25

P235GH	≥ 235	360-500	25	23
P265GH	≥ 265	410-570	23	21
13CrMo4-5	≥ 290	440-590	22	20
10CrMo9-10	≥ 280	480-630	22	20

Chemical Compositions(%)									
Grade	C	Si ≤	Mn	P ≤	S ≤	Cr	Mo	Cu ≤	Ni ≤
P195GH	≤ 0.13	0.35	≤ 0.70	0.025	0.020	≤ 0.030	≤ 0.08	0.30	0.30
P235GH	≤ 0.16	0.35	≤ 1.20	0.025	0.020	≤ 0.030	≤ 0.08	0.30	0.30
P265GH	≤ 0.20	0.40	≤ 1.40	0.025	0.020	≤ 0.030	≤ 0.08	0.30	0.30
13CrMo4-5	0.10-0.17	0.35	0.40-0.70	0.025	0.020	0.70-1.15	0.4-0.6	0.30	0.30
10CrMo9-10	0.08-0.14	0.50	0.30-0.70	0.025	0.020	2.00-2.50	0.9-1.1	0.30	0.30

Size:

- Outer Dimensions.: 6.0 mm ~ 219.0 mm
- Wall Thickness: 1 mm ~ 30 mm
- Length: max 12 meters

Protection:

Pipes are supplied:

- Black and bear
- External varnished with black or clear lacquer

Upon request, pipes ends are protected by plastic caps

Marking:

Pipes are supplied with marking according to standard and customer request.

Marking is paint on the ends of pipes. The same data, as well as additional information per customer's request, is indicated on the bundle's tags.

Delivery:

Pipes are supplied in hexahedral bundles or round bundles tied with steel strip.

Weight of bundle - up to 5000 kg upon request of customer.

Each bundle is furnished with three tags.