

**EN 10216-1 and EN 10216-2 European Standard (Seamless Steel Pipe for Equipment under Pressure):**

EN 10216-1-European Standard

EN 10216-2-European Standard

**Application:**

It is applied to boiler water pipe, flue pipe, superheater pipe and air preheating pipe.

**Grades of Main Steel Pipe:**

P195, P235, P265, P195GH, P235GH, P265GH, 13CrMo4-5, 10CrMo9-10, etc.

Other grades of steel pipe can be provided based on negotiations.

**Mechanical Properties**

Standard	Grade	Tensile Strength (MPa)	Yield Strength (MPa)	Elongation (%)
EN 10216-1	P195	320~440	≥195	≥27
	P235	360~500	≥235	≥25
	P265	410~570	≥265	≥23
EN 10216-2	P195GH	320~440	≥195	≥27
	P235GH	360~500	≥235	≥25
	P265GH	410~570	≥265	≥23
	13CrMo4-5	440~590	≥290	≥22
	10CrMo9-10	480~630	≥280	≥22

**Chemical Composition**

Standard	Grade	Chemical Composition Limits, %									
		C	Si	Mn	P	S	Cr	Mo	Cu	Ni	V
EN10216-1	P195	≤0.13	≤0.35	≤0.70	≤0.025	≤0.020	≤0.30	≤0.06	≤0.30	≤0.30	/
	P235	≤0.16	≤0.35	≤1.20	≤0.025	≤0.020	≤0.30	≤0.06	≤0.30	≤0.30	/
	P265	≤0.20	≤0.40	≤1.40	≤0.025	≤0.020	≤0.30	≤0.06	≤0.30	≤0.30	/
EN10216-2	P195GH	≤0.13	≤0.35	≤0.70	≤0.025	≤0.020	≤0.30	≤0.06	≤0.30	≤0.30	/
	P235GH	≤0.16	≤0.35	≤1.20	≤0.025	≤0.020	≤0.30	≤0.06	≤0.30	≤0.30	/
	P265GH	≤0.20	≤0.40	≤1.40	≤0.025	≤0.020	≤0.30	≤0.06	≤0.30	≤0.30	/
	13CrMo4-5	0.10~0.17	≤0.35	0.40~0.70	≤0.025	≤0.020	0.70~1.15	0.40~0.60	≤0.30	≤0.30	/
	10CrMo9-10	0.08~	≤0.50	0.30~	≤0.025	≤0.020	2.00~	0.90~	≤0.30	≤0.30	/

		0.14		0.70			2.50	1.10			
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**Remarks**

HR: hot rolled	CW: cold worked	SR: stress relieved
A: annealed	N: normalized	HF