

## Boiler Pipe Made from Refractory Steel

### Standard:

DIN 17175-German Industrial Standards

### Application:

It is applied to pipes in boiler industry.

### Grades of Main Steel Pipe:

St35.8, St45.8, 15Mo3, 13CrMo44, 10CrMo910, etc.

Other grades of steel pipe are provided based on negotiations.

### Mechanical Properties

Standard	Grade	Tensile Strength (MPa)	Yield Strength (MPa)	Elongation (%)
DIN 17175	St35.8	360~480	≥235	≥25
	St45.8	410~530	≥255	≥21
	15Mo3	450~600	≥270	≥20
	13CrMo44	440~590	≥290	≥20
	10CrMo910	450~600	≥280	≥18

### Chemical Composition

Standard	Grade	Chemical Composition limits, %					
		C	Si	Mn	P、S	Cr	Mo
DIN 17175	St35.8	≤0.17	0.10~0.35	0.40~0.80	≤0.030	/	/
	St45.8	≤0.21	0.10~0.35	0.40~1.20	≤0.030	/	/
	15Mo3	0.12~0.20	0.10~0.35	0.40~0.80	≤0.030	/	0.25~0.35
	13CrMo44	0.10~0.18	0.10~0.35	0.40~0.70	≤0.030	0.70~1.10	0.45~0.65
	10CrMo910	0.08~0.15	≤0.50	0.40~0.70	≤0.030	2.00~2.50	0.90~1.20

### Remarks

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