

# Boiler Steel Pipe

Products will be used for the heating surface of high temperature boiler, economizer, header, superheater, reheater and for petrochemical industry etc.

## Heat treatment methods applied in the boiler pipes:

**Quenching:** Hardening, also called quenching, is that high pressure boiler pipe is heated evenly to the appropriate temperature, then quickly immerse in water or oil for rapid cooling, and cooling in the air or in the freezing zone. So that the high-pressure boiler pipe can obtain the required hardness.

**Tempering:** High pressure boiler pipe will become brittle after hardening. And the stress caused by quenching can make the high-pressure boiler pipe tapped and broken. The tempering method can be used to eliminate brittleness. Although the hardness of high-pressure boiler pipe is lighter reduced, its the toughness can be increased to reduce the brittleness.

**Annealing:** Annealing is the method to eliminate the internal stress of high-pressure boiler pipe. The annealing method is that the steel parts need to be heated to the critical temperature, then put in dry ash, lime, asbestos or closed in the furnace, then let it cooling slowly.

## Specifications

Outside Diameter: 21.3mm-1067mm

Wall Thickness: 2mm-150mm

Length: 1m-12m

## Standard:

ASME SA106	Seamless carbon steel pipe for high temperature
ASME SA179	Seamless cold drawn low carbon steel pipe for heat exchanger and condenser
ASME SA192	Seamless carbon steel boiler tube for high pressure
ASME SA210	Seamless medium carbon steel pipe for boilers and superheaters
ASME SA213	Seamless ferritic and austenitic alloy steel tubes for boilers, superheaters and heat exchangers
ASME SA335	Seamless ferritic alloy steel pipe for high temperature
DIN 17175	Seamless steel pipe made of heat-resistant steel
EN 10216-2	Non-alloy steel and alloy steel pipes with high temperature performance
GB 5310	Seamless steel pipe for high pressure boiler
GB 3087	Seamless steel pipe for low and medium pressure boilers

## Grade:

Standard	Grade	OD	WT
ASME SA106	SA106B、SA106C	21.3-1067mm	2-150mm
ASME SA179	SA179	19-76.2mm	2-15mm
ASME SA192	SA192	19-177.8mm	2-30mm
ASME SA210	SA210A1、SA210C	19-127mm	2-20mm
ASME SA213	T11、T12、T22、T23、T91、T92	19-127mm	2-20mm
ASME SA335	P11、P12、P22、P23、P36、P91、P92	60.3-1067mm	2-150mm
DIN 17175	ST35.8、ST45.8、15Mo3、13CrMo44、10CrMo910	19-1067mm	2-150mm
EN 10216-2	P195GH、P235GH、P265GH、16Mo3、13CrMo4-5、10CrMo9-10	19-1067mm	2-150mm
	15NiCuMoNb5-6-4(WB36)、X10CrMoVNb9-1、X10CrWMoVNb9-2		
GB5310	20G、20MnG、25MnG、15CrMoG、12Cr1MoVG、12Cr2MoG	19-1067mm	2-150mm
	15Ni1MnMoNbCu、12Cr2MoWVTiB、10Cr9Mo1VNbN、10Cr9MoW2VNbBN		
GB3087	10、20	19-1067mm	2-150mm

Note: Other size can also be provided after consulting with customers