

ASTM A192



Steel Tubes for High-Pressure Steel Boiler Tube

| Seamless Carbon Steel Bolier Tubes for High-Pressure | |
|--|--|
| Application: | For seamless carbon steel bolier and superheater tubes for high-pressure service |
| Size(mm): | O.D.:28~168 W.T.:2 ~30 L:max 12000 |

Grade and Chemical Composition (%)

| Chemical Composition | C | Mn | P≤ | S≤ | Si≤ |
|----------------------|-----------|-----------|-------|-------|------|
| | 0.06-0.18 | 0.27-0.63 | 0.035 | 0.035 | 0.25 |

SA-450/SA-450M):

| OD In (mm) | + | - | WT In(mm) | + | - |
|-----------------------|------|------|--------------|-----|---|
| <1(25.4) | 0.10 | 0.10 | ≤1.1/2(38.1) | 20% | 0 |
| 1~1.1/2(25.4~38.1) | 0.15 | 0.15 | >1.1/2(38.1) | 22% | 0 |
| >1.1/2~<2(38.1~50.8) | 0.20 | 0.20 | | | |
| 2~<2.1/2(50.8~63.5) | 0.25 | 0.25 | | | |
| 2.1/2~<3(63.5~76.2) | 0.30 | 0.30 | | | |
| 3~4(76.2~101.6) | 0.38 | 0.38 | | | |
| >4~7.1/2(101.6~190.5) | 0.38 | 0.64 | | | |
| >7.1/2~9(190.5~228.6) | 0.38 | 1.14 | | | |

| Brinell Hardness Number (WT≥)0.200In(5.1mm) | Rockwell Hardness Number (WT)0.200In(5.1mm) |
|--|--|
| 137HRB | 77HRB |