FM APPROVED

# FiGuard-10

## Carbon Steel Pipes for Fire Protection Use

ท่อเหล็กกล้า สำหรับงานระบบดับเพลิง

ASTM A795

| Grade | % Chemical Composition (Max) | | | | | Mechanical Properties (Min) | | |
|---|---|---|---|---|---|---|---|---|
| | C | Si | Mn | P | S | Yield Strength | Tensile Strength | Elongation |
| | | | | | | MPa | MPa | % |
| Grade A | 0.25 | - | 0.95 | 0.035 | 0.035 | - | - | - |
| Grade B | 0.30 | - | 1.20 | 0.035 | 0.035 | - | - | - |

| Nominal Size | | Outside Diameter | Thickness | Weight (plain end) | Rated Working Pressure | Hydrostatic Test Pressure | | Schedule |
|---|---|---|---|---|---|---|---|---|
| | | | | | | Grade A,B | | |
| mm | inch | mm | mm | kg/m | psi | psi | kPa | |
| 25 | 1" | 33.40 | 2.77 | 2.09 | 300 | 1200 | 8300 | 10 |
| 32 | 1 1/4" | 42.20 | 2.77 | 2.69 | 300 | 1200 | 8300 | 10 |
| 40 | 1 1/2" | 48.30 | 2.77 | 3.11 | 300 | 1200 | 8300 | 10 |
| 50 | 2" | 60.30 | 2.77 | 3.93 | 300 | 1200 | 8300 | 10 |
| 65 | 2 1/2" | 73.00 | 3.05 | 5.26 | 300 | 1200 | 8300 | 10 |
| 80 | 3" | 88.90 | 3.05 | 6.46 | 300 | 1200 | 8300 | 10 |
| 90 | 3 1/2" | 101.60 | 3.05 | 7.41 | 300 | 1200 | 8300 | 10 |
| 100 | 4" | 114.30 | 3.05 | 8.37 | 300 | 1200 | 8300 | 10 |
| 125 | 5" | 141.30 | 3.40 | 11.58 | 300 | 1200 | 8300 | 10 |
| 150 | 6" | 168.30 | 3.40 | 13.85 | 300 | 1200 | 8300 | 10 |
| 200 | 8" | 219.10 | 4.78 | 25.26 | 225 | 900 | 6200 | 10 |
| 250 | 10" | 273.10 | 4.78 | 31.62 | 225 | 900 | 6200 | 10 |

| Dimension Tolerances | Outside Diameter | Thickness | Weight | Length |
|---|---|---|---|---|
| | NPS ≤ 1 ½ in (40 mm) : ±0.016 in (0.41 mm)<br>NPS ≥ 2 in (50 mm) : ±1% from specified OD | -12.5 % , +Not Limit | ±5% | -0 mm , +50 mm |

Remark : Schedule 10 corresponds to Schedule 10S as listed in ANSI B36.19 for NPS through 6 [DN 20 through 150] only