

ALLOY STEEL

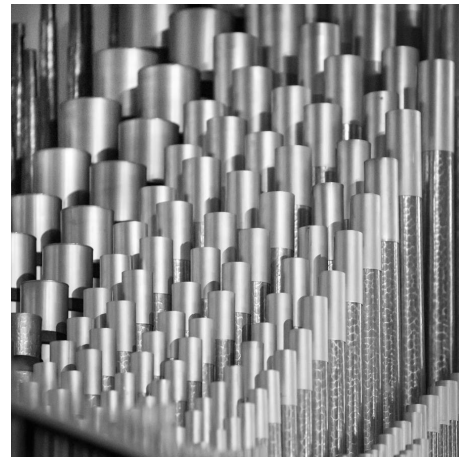
Advanced Materials. Engineered for Performance.

A335 P12 Seamless Pipe

Alloy Steel | ASTM / ASME: A335 / SA335 Grade P12 | EN: 13CrMo4-5 / 1.7335

| Fittings / flanges: A234 WP12 / A182 F12

1Cr-0.5Mo seamless pipe. The economical Cr-Mo pipe grade for boiler feed, steam and hot process service up to around 540 C, and the usual partner to SA387 Grade 12 plate.


Stock status: Mill indent - **Typical lead time:** 4 - 8 weeks mill indent

Key features

- Seamless, normalised and tempered to ASME SA335
- Creep rupture strength for long term elevated temperature service
- Matched fittings (A234 WP) and flanges (A182 F) available from one source
- Hardness, hydro and ultrasonic test reports with every heat

Available forms & sizes

Form	Size range
Seamless Pipes & Tubes	1/2" - 24" NB, SCH 40 - SCH 160 / XXS
Fittings	1/2" - 24" butt weld fittings, WP11 / WP22 / WP91
Flanges	1/2" - 24", 150# - 2500#, F11 / F12 / F22 / F5 / F9 / F91

Chemical composition (%)

Element	Min	Max
C	0.05	0.17
Cr	0.80	1.15
Mo	0.45	0.60
Si	0.15	0.40
Mn	0.40	0.65

Mechanical properties

Property	Value	Unit
Yield Strength (0.2%)	220 min	MPa
Tensile Strength	415 min	MPa

Property	Value	Unit
Elongation	20 min (longitudinal)	%
Condition	Normalised and tempered, seamless	-

Physical properties

Property	Value	Unit
Density	7.85	g/cm3
Max Service Temperature	550 - 650 depending on grade	C

Standards

ASTM A335 / ASME SA335, ASTM A234 (fittings), ASTM A182 (flanges), EN 10216-2, EN 10204 3.1 / 3.2

Equivalent grades

13CrMo4-5, 1.7335, WP12, F12

Industries served

Power Generation, Petrochemical, Refining, Oil & Gas, Fertiliser

Typical applications

- Main steam and hot reheat piping
- Superheater and reheater headers
- Refinery hot wall piping and heater coils
- High temperature process lines



Live datasheet