

Seamless Ferritic Alloy-Steel Pipe for High-Temperature Service – ASTM A335

Application: construction of boilers, pipelines and equipments for high temperature

Mechanical Properties			
Grade	Yield Strength (Mpa)	Tensile Strength (Mpa)	Elongation (%)
P11	≥ 205	≥ 415	20
P12	≥ 220	≥ 415	20
P22	≥ 205	≥ 415	20
P5	≥ 205	≥ 415	20

Chemical Compositions (%)										
Grade	C	Si	Mn	P	S	Cr	Mo	Cu	Ni	V
P11	0.05-0.15	0.50-1.00	0.30-0.60	≤0.025	≤0.025	1.00-1.50	0.44-0.65	/	/	/
P12	0.05-0.15	≤0.50	0.30-0.61	≤0.025	≤0.025	0.80-1.25	0.44-0.65	/	/	/
P22	0.05-0.15	≤0.50	0.30-0.60	≤0.025	≤0.025	1.90-2.60	0.87-1.17	/	/	/
P5	≤0.15	≤0.50	0.30-0.60	≤0.025	≤0.025	4.00-6.00	0.45-0.65	/	/	/

Size:

- Outer Dimensions.: 19.05mm ~ 114.3mm
- Wall Thickness: 2 mm ~ 14 mm
- Length: max 16 meters

Protection:

Pipes are supplied:

- Black and bear
- External varnished with black or clear lacquer
- Oiled

Upon request, pipes ends are protected by plastic caps

Marking:

Pipes are supplied with marking according to standard and customer request.

Marking is paint and/or die stenciled on the ends of pipes. The same data, as well as additional information per customer's request, is indicated on the bundle's tags.

Delivery:

Pipes are supplied in hexahedral bundles or round bundles tied with steel strip.

Weight of bundle - up to 5000 kg upon request of customer.

Each bundle is furnished with three tags.