



ASTM A333 GRADE 6 SEAMLESS ALLOY PIPE

ASTM A333 Grade 6 is the part of standard covers wall seamless and welded carbon and alloy steel pipe intended for use at low temperatures. ASTM A333 Grade 6 alloy pipe shall be made by the seamless or welding process with the addition of no filler metal in the welding operation. This specification covers seamless and welded steel pipe for low temperature service. The Grade 6 alloy steel involved is similar to AISI 4032 low alloy steel.

Seamless and Welded Steel Pipe size for Low-Temperature Service:

- Outer Dimensions: 19.05 mm – 610 mm
- Wall Thickness: 2.0 mm – 70 mm
- Length: Max 16000 mm
- Application: Seamless and Welded Steel Pipe for Low-Temperature Service. Steel grade: ASTM A333 Grade 6
- Packing: Bare packing/bundle packing/crate packing/wooden protection at the both sides of tubes and suitably protected for sea-worthy delivery or as requested.
- Inspection and Test: Chemical Composition Inspection, Mechanical Properties Test (Tensile Strength, Yield Strength, Elongation, Flaring, Flattening, Bending, Hardness, Impact Test), Surface and Dimension Test, No-destructive Test, Hydrostatic Test.
- Surface treatment: Oil-dip, Varnish, Passivation, Phosphating, Shot Blasting. Both ends of each crate will indicate the order no., heat no., dimensions, weight and bundles or as requested.

ASTM A333 Grade 6 Chemical Compositions (%)

Compositions	Data
Carbon (max.)	0.30
Manganese	0.29-1.06
Phosphorus (max.)	0.025
Sulfur (max.)	0.025
Silicon	...
Nickel	...
Chromium	...
Other Elements	...



Mechanical properties for ASTM A333 Grade 6 Alloy Steel

Properties	Data
Tensile strength, min, (MPa)	415 Mpa
Yield strength, min, (MPa)	240 Mpa
Elongation, min, (%), L/T	30/16.5

Impact requirements:

The notched-bar impact properties of each set of three impact specimens, when tested at temperature specified shall be not less than the values prescribed.

Referenced Documents

ASTM A 370 Test Methods and Definitions for Mechanical testing of Steel Products

ASTM A999/A 999M Specification for General requirements for Alloy and Stainless Steel Pipe.

ASTM A 671 Specification for General requirements for Alloy and Stainless Steel Pipe

ASTM E 23 Test Methods for Notched bar Impact testing of Metallic Materials