



ASTM A213 T91 SEAMLESS ALLOY PIPE

ASTM A213 T91 is the part of ASTM A213 Standard Specification for Seamless Ferritic and Austenitic Alloy-Steel Boiler, Superheater, Heat-Exchanger Tubes.

Chemical Composition(%) for ASTM A213 T91 Low Alloy Steel

UNS Designation	K31545
Carbon	0.05–0.15
Manganese	0.30–0.60
Phosphorus	0.025
Sulfur	0.025
Silicon	0.50–1.00
Nickel	...
Chromium	2.65–3.35
Molybdenum	0.80–1.06
Vanadium	...
Boron	...
Niobium	...
Nitrogen	...
Aluminum	...
Tungsten	...
Other Elements	...

Mechanical properties for ASTM A213 T21 Low Alloy Steel

Tensile strength(min)	415Mpa
Yield strength(min)	220Mpa
Elongation	30%
Delivery condition	annealed