

Listed company

National AAA Tourist attraction factory

13 factories

293 products lines

21 Manufacture experience

Spiral welded steel pipe is a type of steel pipe that is manufactured by rolling a strip of steel into a cylindrical shape and then welding the edges together to form a spiral seam.

SSAW Spiral Welded Pipe Applications

- Oil and gas transmission pipelines
- Water and sewage pipelines
- Structural and piling purposes
- Offshore and onshore construction
- Industrial plant piping
- Mining and dredging operations



Spiral Steel Pipe Standards

API 5L: widely used for line pipes in oil and gas industry applications.

ASTM A252: covers welded steel pipe piles used in construction and structural applications.

Spiral Steel Pipe Standards

API 5L Grade B, X42, X52, X60, X65, X70

API 5L PSL1 Welded Steel Pipe	Chemical Composition				Mechanical Properties	
	Steel grade	C (max.)%	Mn (max.)%	P (max.)%	S (max.)%	Yield strength min. MPa
Grade A	0.22	0.9	0.03	0.03	207	331
Grade B	0.26	1.2	0.03	0.03	241	414

ASTM A252 Grade 1, Grade 2, Grade 3

ASTM A252 Welded Steel Pipe Piles Mechanical Properties			
Steel Grade	Minimum Yield Strength	Minimum Tensile Strength	Elongation for nominal wall thicknesses 7.9mm or more
	MPa	MPa	Elongation in 50.8mm,min,%
Grade 1	205	345	30
Grade 2	240	415	25
Grade 3	310	455	20



Spiral Welded Steel Pipe Dimensions

Outer Diameter	219-3000mm
Wall Thickness	6-28mm
Length	5.8-12M according to client requirement
Certificate	API 5L, ISO 9001:2008,SGS, BV, CCIC etc
Finish of pipe	Hot dipped galvanized with zinc 220~260g/m ² ; Painted with black/varnish lacquer; Oil on the surface to prevent rust; Bare pipe without painting: Epoxy painting/FBE coating/3PE coating
Pipe End	Plain end/ Bevel end;
Marking	As per client requirement or mill standard
Packing	OD not less than 273mm: Loose packing,piece by piece. OD less than 273mm: In hexagonal seaworthy bundles packed by steel strips. small sizes nested into big sizes.
Technical	SSAW (spiral submerged arc welded)
Trade Term	FOB, CFR, CIF, EXW, FCA

Advantages of spiral welded pipe:

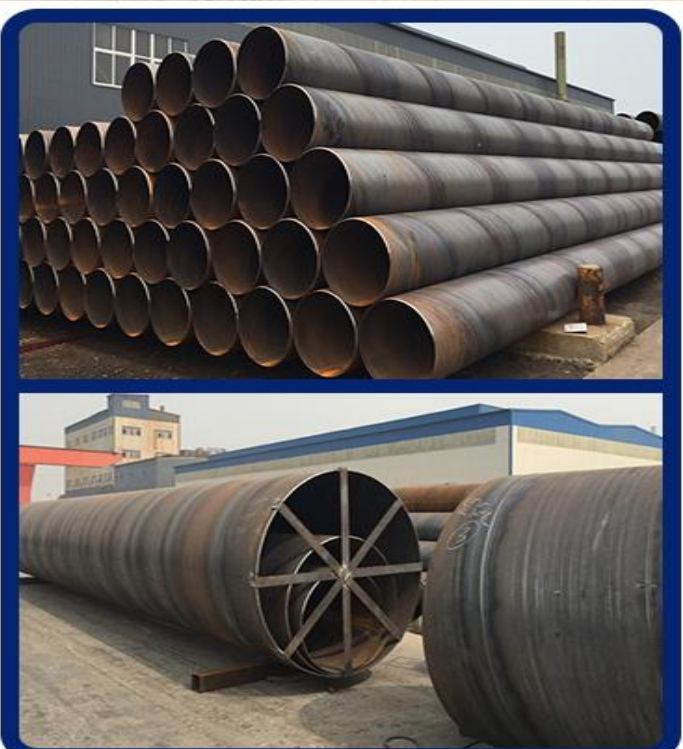
(1) Steel pipes of different diameters can be produced using strip steel of the same width, and steel pipes of large diameter can be produced from narrow strip steel.

(2) Under the same pressure conditions, the stress of the spiral welded seam is smaller than that of the straight seam, which is 75% to 90% of that of the straight seam welded pipe, so it can withstand greater pressure. Compared with the straight seam welded pipe of the same outer diameter, the wall thickness can be reduced by 10% to 25% under the same pressure.

(3) The size is accurate, the general diameter tolerance does not exceed 0.12%, the deflection is less than 1/2000, and the ovality is less than 1%. Generally, the sizing and straightening process can be omitted.

(4) Continuous production is possible. In theory, long steel pipes can be produced, with small head and tail loss, and can increase the metal utilization rate by 6% to 8%.

(5) The equipment is light in weight and low initial investment. It can be made into a trailer-type mobile unit to directly produce welded pipes at the construction site





Beveled ends pipes



Spitot and socketed



Galvanized and Grooved SSAW



Oil/black painting pipes