PIPE USA

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OCTG GLOSSARY

ASSOCIATIONS FOR VARIOUS STANDARDS AND SPECIFICATIONS

AAR - Association of American Railroads.
AGA - American Gas Association.
AISI- American Iron & Steel Institute.
ANSI- American National Standards Institute.
API - American Petroleum Institute.
API Designations:
API 5L- Line pipe. Requires Hydrostatic, tensile, flattening and bending test, as well as a greater control of chemistry than A-53 or A-120.
API 5L/X-42-High test line pipe.
ASA - American Standard Institute - Now ANSI.
ASM - American Society for Metals.
ASME- American Society of Mechanical Engineers.
ASTM- American Society for Testing and Materials.
ASTM Designations:
A-53- Welded and seamless pipe suitable for coiling, bending, welding, and general fabrication. Seamless A-53 can be flanged.
A-53- Seamless boiler tubes and pressure tubing, also seamless pipe 1/8" to 1-1/2".
A-106- Seamless pipe for high pressures.
A-120- Welded and seamless pipe for ordinary usage in steam, water, gas and air lines. Requires hydrostatic test only.
A-135- Electrlc resistance welded steel pipe.
A-139- Electric fusion welded steel pipe.
A-155- Electric fusion welded steel pipe for high pressure service.
A-211- Spiral welded steel pipe in light wall thicknesses.
A-252- Pipe for piling.
A-312- Seamless and welded stainless steel pipe.
A-333- Seamless and welded carbon and alloy steel pipe, for low temperature service, i.e. grade 1 (-50°F), grade 9 (-100°F) and grade 3 (-150°F).
A-335- Seamless alloy steel pipe for high temperature service.
A-405- Seamless alloy steel pipe specially heat treated for high temperature service.
A-501- Seamless and welded steel structural tubing.
A-513- Electrlc resistance welded carbon and alloy steel mechanical tubing.
A-523- Seamless and electric resistance welded steel pipe for high pressure pipe/type cable circuits.
A-524- Seamless steel pipe heat treated for process piping applications.
A-589- Seamless and welded steel pipe for water well use.
i.e. Type I-drive pipe. Type II-reamed and drifted pipe.
Type III-driven well Pipe. Type IV-caslng pipe.
A-618- Seamless and welded high strength low alloy structural tubing.

AWWA- American Water Works Association
NBS- National Bureau of Standards

PIPE TERMS

ANNEALING-	Treatment consisting of heating uniformly to a temperature within or above the critical range and cooling at a controlled rate to a temperature under the critical range. This term Is normally used in conjunction with the seam or weld area and is utilized to produce a definite micro-structure to remove stress, induce softness or to alter ductility, toughness or other mechanical properties.
BESS-	Bessemer
B-	BEVEL-The angle formed between the prepared edge of the end of the pipe and a plane perpendicular to the surface. Standard line pipe bevel is 30°. Standard OCTG pipe bevel is 30°.
BLK-	BLACK-Term used when OD surface of pipe is protected with a varnish type oil. Also applies to bare pipe to denote not galvanized.
BOF-	Basic Oxygen Furnace
BTU-	British Thermal Unit
BW-	Butt Weld Pipe
BWG-	Birmingham Wire Gauge
CSG-	CASING-Plpe used as a structural retainer for the walls of a water, gas, or oil well.
CD-	COLD DRAWN-Drawlng pipe or tubing through a die to reduce diameter and wall, to obtain closer tolerances, a better finish or higher physical properties.
CPLG-	COUPLING-Threaded sleeve used to connect two lengths of pipe.
CW-	CONTINUOUS WELD-Method of producing pipe normally in sizes from 1/2 inch to 4 inch.
CU-	Copper
CWT-	Per hundred weight
DIA-	Diameter
DBL XHVY-	DOUBLE EXTRA HEAVY-Also known as double extra strong. Available from 1/2 inch to 8 inch nominal pipe, wall thickness is twice as heavy as extra heavy pipe with the exception of 8 inch diameter.
DRL-	Double Random Length (35' minimum average)
DSAW-	DOUBLE SUBMERGED ARC WELD-Method of producing large OD pipe.
ERW-	ELECTRIC RESISTANCE WELD PIPE-Method of producing pipe normally in sizes from 2-3/8"0D through 22"OD.
EUE-	EXTERNAL UPSET ENDS-Used In API tubing and drill pipe.
FOB-	Free on Board
FRT-	Freight

PIPE TERMS CONT'D

GALV-	GALVANIZING-Coating pipe with a protective coating of zinc.
GR-	GRADE A or B-Designations used to indicate minimum yield and tensile strengths of steel in seamless and welded pipe.
GT-	Gross Ton - 2,240 pounds
ID-	INSIDE DIAMETER-The OD measurement less double the wall thickness is the ID measurement of a pipe or tube.
IPS-	IRON PIPE SIZE-Same as nominal size from 1/8 inch to 12 inch.
JT-	JOINT-Term used to refer to one length of pipe.
LGTH-	Length
LT&C-	Long threads and coupling
LS-	Limited Service
LW-	LAP WELD-Old method of producing pipe 5 inch diameter and over.
MW-	MID-WELDS-Two or more joints welded to form one long joint.
MN-	Manganese
NI-	Nickel
NOM-	NOMINAL-Name given to standard pipe designations 1/8 inch through 12 inch. Does not indicate actual ID measurements. Wall thicknesses are also expressed as nominal.
NORMALIZE-	Treatment consisting of heating uniformly to a temperature at least 100°F above the critical range and cooling in still air at room temperature. This process produces a re-crystalizatlon and refinement of the grain structure and gives uniformity in hardness and structure to the product.
OD-	Outside Diameter
OH-	Open Hearth
PCS-	Pieces
PE-	Plain End
PERC-	Plain end roller cut
PESC-	Plain end square cut or saw cut or machine cut.
PSI-	Pounds per square inch.
QUENCH-	Treatment consisting of heating uniformly to a predetermined temperature and cooling rapidly in air or liquid to produce a desired structure. Quenching is used as the first step in a double treatment to produce a desired range of mechanical properties.

PIPE TERMS CONT'D

R-	RANGE- Allowable lengths in Oilfield casing and tubing. Casing: Range 1: I6'-25' lengths-average 22' Range 2: 25'-34' lengths-average 29' Range 3: 34'-up lengths-average 38' Tubing: Range 1: 20'-24' lengths. Range 2: 28'-32' lengths.
RL-	RANDOM LENGTH- Varying lengths of pipe.
R&D-	REAMED AND DRIFTED - Commonly used in water wells to guarantee ID clearance.
SAW-	SUBMERGED ARC WELD - A method of producing very large OD Pipe.
SCH-	SCHEDULE NUMBERS-ANSI number assigned to pipe to designate wall thickness.
SMLS-	SEAMLESS - Pipe without a seam or weld in the circumference.
SPEC -	Specification
SRL -	SINGLE RANDOM LENGTHS - Usually 16' to 22'. Minimum average of 17'6".
ST&C -	Short Thread and coupled
STD -	STANDARD - Same as SCH. 40, l/8"-10"
TBE -	Thread both ends
T&C -	Threaded and coupled
TEMPERING -	Treatment consisting of heating uniformly to some predetermined temperature under the critical range, holding at that temperature for a designated period of time, and cooling in air or liquid. This is normally the second step of a double treatment performed to produce desired mechanical properties.
TOE -	Thread one end
XHY -	EXTRA HEAVY (Extra Strong)
XXHY-	DOUBLE EXTRA HEAVY (Double Extra Strong)