

# Glossary of Pipe Standards

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**API Spec 5L** Standard specification for dimensions, material and technical delivery conditions of seamless and welded steel pipe, mainly used for pipelines.

**ASTM A 106 / ASME SA 106** Standard specification for technical delivery conditions of seamless carbon steel pipe, suitable for high temperature service. Apart from requirements for quality and for execution, the required tests are also described.

**ASTM A 333 / ASME SA 333** Standard specification with technical delivery conditions of seamless steel pipe, suitable for low temperature service. Apart from requirements for quality and executions, the required tests are also described. Pipes have been rolled from steel, manufactured as per "fine grain practice".

**ASTM A 335 / ASME SA 335** Standard specification for technical delivery conditions of seamless ferritic alloy-steel pipe, for high temperature service. Apart from requirements for quality and for execution, the required tests are also described.

**ASTM A 520** Standard specification for supplementary requirements for seamless and electric resistance welded carbon steel pipes. This concerns more intensive tests as well as specific requirements for high temperature service. Apart from requirements regarding number of tests and test-pressure, this specification also includes a table stating minimum tensile strength at specified temperatures.

**ASTM A 530 / ASME SA 530** Standard specification stating general, in majority minimum requirements for carbon and alloy steel pipe (a.o. for A 106/ SA 106). In this standard, also tolerances regarding all thickness, diameter, length and straightness are defined. Moreover applicable test-methods and required test-pressure are included.

**ASME B 36.10** Standard specification, stating dimensions for carbon steel pipe and tube. This standard gives a survey of outside pipe diameters, pipe schedules, wall thicknesses and weights. Size range: from diameter 1/8" up to and including 24"

**BS 3059 part 1** Standard specification for technical delivery conditions of carbon steel boiler tubes in material ERW 320 with low tensile strength and without special properties for high temperatures. Due to a low tensile strength (max. 440 N/mm<sup>2</sup>) and in particular a high elongation (as a result of annealing), these pipes are especially suitable for bending on automatic bending machines.

**DIN 1626** Standard specification for technical delivery conditions of welded tubes from carbon steel for particular applications. DIN 1626 states requirements for material quality and executions, the tube has to meet.

**DIN 1629** Standard specification for technical delivery conditions (quality and executions) of seamless tubes from carbon steel for particular applications.

**DIN 2394 part 1** Standard specification, stating dimensions for welded carbon steel precision tubes. This standard states outside pipe diameters, wall thicknesses, weights and tolerances.

**DIN 2394 deel 2** Standard specification for technical delivery conditions of welded carbon steel precision tubes. These tubes are in particular used, when requirements regarding dimensions and surface are more severe than usual.

**DIN 2440** Standard specification for seamless and welded so-called "threaded tubes" (also known as "gas tubes"). These tubes are applicable for a maximum pressure of 25 bar for liquids and 10 bar for air and not-dangerous gasses.

**DIN 2441** Standard specification for seamless and welded so-called "threaded tubes", (also known as "steam tubes"). These tubes are applicable for a maximum pressure of 25 bar for liquids and 10 bar for air and not-dangerous gasses.

**DIN 2448** Standard specification, stating dimensions for seamless steel tubes. This standard gives a survey of outside pipe diameters, wall thicknesses and weights. (For details please refer to page 14-15.)

**DIN 2458** Standard specification, stating dimensions for welded steel tubes. This standard gives a survey of outside pipe diameters, wall thicknesses and weights. (For details please refer to page 16-17.)

**DIN 2470-1** Standard specification for gas pipelines from carbon steel tubes with a max. working pressure of 16 bar.

**DIN 17121** Standard specification, stating technical delivery conditions of seamless steel tubes, in particular used for steel constructions. For various other applications however, this pipe can be used as well. In the event that both high tensile strength and yield point are of more importance than in case of plain steels (e.g. St 37.0) pipe to this specification can often meet these higher requirements.

**DIN 17175** Standard specification with technical delivery conditions for seamless steel heat resisting steels. These tubes are being used especially when elevated temperatures are involved.

**DIN 30670** Standard specification for polyethylene coatings of pipe & tube, fittings and other pipe components. In this standard, requirements for both coating and testing of coating have been specified.

**EN 10025** European standard with qualities of hot rolled carbon steel strip or construction steel.

**EN 10210-1** European standard for technical delivery conditions for hot formed or annealed hollow sections from construction steel.

**EN 10210-2** European standard for dimensions, admissible tolerances and static values of hot formed carbon steel hollow sections with square, rectangular or circular diameter for application in steel constructions.

**EN 10219 part 1** European standard for technical delivery conditions for cold-formed carbon steel hollow sections for application in steel constructions.

**EN 10219 part 2** European standard for dimensions, tolerances and static values for cold-formed carbon steel hollow sections with square, rectangular or circular diameter for application in steel constructions.

**ISO 65 Light series II** Standard specification for so-called "threaded tubes" also called "class A-tubes". This standard specifies technical delivery conditions, dimensions, wall thicknesses weights and tolerances.

**ISO 2938** Standard specification, stating (amongst others) nominal dimensions of mechanical tubing.