

# Piping Material Specification Project Standards And

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## **Piping Material Specification Project Standards**

PIPING MATERIAL SPECIFICATION

(PROJECT STANDARDS AND

SPECIFICATIONS) 2.1.6 The use of 3.5%

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304 SS shall be used in place of or 3.5%

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components shall be coated or cold tape

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Project Engineering Standard

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Rev: 01 April 2011 KLM Technology

Group #03-12 Block Aronia, Jalan Sri

Perkasa 2 Taman Tampoi Utama 81200

Johor Bahru Malaysia PROCESS DESIGN

OF PIPING SYSTEMS (PROCESS PIPING

AND PIPELINE SIZING) (PROJECT

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Technology Group #03-12 Block Aronia,  
Jalan Sri Perkasa 2 Taman Tampoi  
Utama 81200 Johor Bahru Malaysia

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(PROJECT STANDARDS AND  
SPECIFICATIONS) TABLE OF CONTENTS 1  
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## **Project standards and\_specification s\_piping\_materials\_rev01web**

This Practice describes the basic characteristics of each PIP Material Specification. Each specification listed is described by pressure class, primary material, corrosion allowance, service type, and joint construction.

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## **Piping Material Specifications Line Class Index**

Piping Specs provides specific/additional requirements for the materials, components, or services that are beyond the code and standard requirements. For Example, if you want A106 Gr B pipe with Maximum carbon of 0.23% against standard requirements of 0.3% Max, you must be specified this requirement in your purchase specification.

## **Pipe Class and piping specifications - Must Know of Pipe ...**

The Piping Specification (abbreviated: Pipe Spec) is a document prepared during the design phase of any project. It provides the appropriate selection, specification and material grade of pipe and piping components for a given service.

## **Engineering Standard - What are Piping Specifications?**

SPECIFICATION LIST FOR PIPING

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MATERIALS Pipe World Standards API  
(American Petroleum Institute) API Spec  
2B Structural Steel Pipe - Steel Pipe. API  
Spec 2C Offshore Cranes - Offshore  
Cranes API Spec 2F Mooring Chain -  
Flash Welded Chain; Forged Connecting  
Links

## **SPECIFICATION LIST FOR PIPING MATERIALS - BDL Project Supply**

Some of the more material standards  
referenced are: A 36 Specification for  
Structural Steel A 53 Specification for  
Pipe, Steel, Black and Hot -Dipped, Zinc  
Coated Welded and Seamless A 105  
Specification for Forgings, Carbon Steel,  
for Piping Components

## **PIPING CODES & STANDARDS | PIPING GUIDE**

3.0 MATERIAL/MANUFACTURING  
REQUIREMENTS All materials used to  
manufacture the piping, tubing, flanges  
or fittings, as designated per this  
specification, are to be of U.S.A. origin  
and manufacture. 4.0 EXAMINATION

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AND TESTING Examination and Pressure Testing as required by ANSI B31.3 5.0 LINE NUMBER SYSTEM 4.1 Lines shall be numbered according to the following chart:

## **Specification for Piping Design / Materials**

PIPING MATERIALS MATCH CHART The piping ASTM materials match chart shows, for example, that an A106 Gr. A pipe matches with ASTM A234 butt weld fitting, with an ASTM A105 forged fitting, flange or valve, with an A216 WCB cast valve and with ASTM A193 B7 stud bolts. The same logic applies to any other ASTM material grade listed in the table.

## **Piping Materials Match Chart (ASTM) - Projectmaterials**

The applicable pipe specification allows the use of Socket Weld construction for the services described in item 2 above. Installation shall be only for Carbon Steel piping systems up to 500°F (260°C) and Stainless Steel piping systems up to



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120°F (49°C). Sizes up to and including 3 in. NPS.

## **Engineering standard - Piping Material Specification ...**

Specifications in Appendix A. The Piping Specifications provide materials, fittings, and fasteners, which meet the pressure design requirements of B31.3. The designer must address all design conditions. 301.2.2 - Required Pressure Containment or Relief Piping systems are designed to either safely contain or relieve the maximum pressure that can be imposed.

## **ASME B31.3 Process Piping Guide**

3.5.2 The pipe shall conform to ASTM D2241 as it applies to Type 1, Grade 1 or Grade 2, Polyvinyl Chloride Plastic, SDR 17 PRESSURE CLASS 250. 3.5.3 The joints shall be designed so that the pipe and fittings may be connected on the job without the use of glue or adhesive or any special equipment.

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## **STANDARD PIPELINE MATERIALS AND CONSTRUCTION SPECIFICATIONS**

Pipe Fabrication Institute (PFI) Standard ES-22 provides Piping Materials color coding requirements for most commonly used piping material grades. It also provides guidance on marking location on piping components. Refer below images for the color band location on piping components.

### **Pipe Color Code Standard and Piping Color Codes Chart**

This specification covers the minimum basic requirements for various aspects of the above ground piping and in trench piping for the industrial plants as follow:

- a) Shop and field fabrication and erection of piping.
- b) Installation of in-line instrument items like orifice flanges, control valves, rota meters, safety valves, etc.

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