



Exploration & Production

GENERAL SPECIFICATION

CORROSION

GS EP COR 223

Bituminous hot applied external pipeline coatings

04	10/08	General revision
03	10/07	Addition of international standards titles
02	10/05	Addition of "EP" root to GS identification
01	09/03	Change of Group name and logo
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Rev.	Date	Notes

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1. Scope

This general specification refers to [EN 10300](#) in full for all requirements, except for those listed below, which shall overrule any statement within EN 10300.

This specification covers external anticorrosion coating of linepipes using hot applied bituminous materials for onshore and offshore oil, gas, or water lines.

The coating shall be plant applied, reinforced hot bitumen based enamel suitable for service temperature up to 55°C without concrete weight coating.

When coated with concrete weight coating, the reinforced hot bitumen based enamel coating is approved for service temperature according to [EN 10300](#), depending on the type of bitumen:

Oxidized bitumen: -15°C up to +75°C

Modified bitumen: -30°C up to +90°C.

In this document the wording:

- "Will" is normally used in conjunction with an action by COMPANY rather than by CONTRACTOR, Applicator, or MANUFACTURER
- "Should" indicates a non-mandatory advice, while "may" refers to options
- "Shall" and "is to be" are mandatory requirements
- "Must" is used only where a provision is a statutory requirement.

2. Reference documents

The reference documents listed below form an integral part of this General Specification. Unless otherwise stipulated, the applicable version of these documents, including relevant appendices and supplements, is the latest revision published at the EFFECTIVE DATE of the CONTRACT.

Standards

Reference	Title
EN 10300	Steel tubes and fittings for offshore and onshore pipelines – Bituminous hot applied materials for external coating
ISO 8501-1	Preparation of steel substrates before application of paints and related products. Visual assessment of surface cleanliness. Part 1: Rust grades and preparation grades of uncoated steel substrates and of steel substrates after overall removal of previous coatings.
ISO 8502-3	Preparation of steel substrates before application of paints and related products -- Tests for the assessment of surface cleanliness -- Part 3: Assessment of dust on steel surfaces prepared for painting (pressure-sensitive tape method)
ASTM D 71	Standard test method for relative density of solid pitch and asphalt
ASTM D 36	Standard test method for softening point of bitumen
ASTM D 5	Standard test method for penetration of bituminous materials