



**HELLENIC GAS
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**TECHNICAL JOB
SPECIFICATION**

831/1

REVISION 0

DATE 05/04/2011

HIGH PRESSURE (HP) TRANSMISSION SYSTEMS

INSULATING COATING MATERIALS FOR M/R STATIONS

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QUALITY ASSURANCE PAGE

CHANGES LOG

REVISIONS LOG

0	05-04-2011	FIRST ISSUE	PQ DPT	VG
Rev. No	Rev. Date	REASON FOR CHANGE	Made By	Approved By

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REFERENCE DOCUMENTS

Job Spec. No. 831/2

[Application of Insulating Coating for M/R Stations]

ELOT EN 12068

[Cathodic protection - External organic coatings for the corrosion protection of buried or immersed steel pipelines used in conjunction with cathodic protection - Tapes and shrinkable materials]

ISO 21809-4

[Petroleum and natural gas industries - External coatings for buried or submerged pipelines used in pipeline transportation systems - Part 4: Polyethylene coatings (2-Layer PE)]

1.0 **SCOPE**

This specification covers insulating coating materials for site application on piping systems in Metering and Regulating Stations and Compressor Stations.

The materials are divided into the following two classes according to temperature rating:

- For Standard Temperatures: operating temperature between -10 °C and 50 °C
- For Elevated Temperatures: operating temperature between -10 °C and 80 °C

The requirements of the following, listed in order of precedence, are valid for the manufacture of these materials:

- this specification
- **ELOT EN 12068**
- **ISO 21809-4**

2.0 **QUALITY CONTROL**

The Manufacturer is, under all circumstances, responsible for ensuring that the materials ordered are manufactured in compliance with this specification and, in case of doubt, shall be able to provide proof thereof.

Quality requirements and test methods for the materials shall satisfy the conditions of **ELOT EN 12068** for Class B.

Control certificates shall be issued by Manufacturer. Manufacturer shall declare that the materials supplied are in compliance with the requirements of the order and he also attaches the chemical analysis or any other test results based on non-specific inspection and testing.

Any time during the work process of the above materials ordered, Owner or his Representative shall have free access for inspection at those parts of the Manufacturer's premises where manufacturing and testing of the materials ordered takes place.

The Manufacturer shall, without charge, provide Owner or their Representative with all reasonable facilities necessary to satisfy them that the product is being produced in compliance with this specification.

3.0 **MATERIAL TYPES**

Wrapping materials shall be designed for cold application.

The materials for standard temperatures shall consist of two layers, which may be combined as a single tape. The inner layer, providing the electrical insulation, shall be of a butyl rubber or bituminous rubber compound. The outer layer, providing the mechanical protection shall be of PE.

The materials for high temperatures shall be built up in the same manner as for standard temperatures, with additional layers as necessary to render the materials resistant to high temperatures, or usage of medium Density polyethylene (MD-PE) for temperatures up to 80°C.

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Primers to be applied before the application of wrapping materials shall be compatible with the wrapping materials used.

Materials that will be used will be sufficient (chemical and mechanical properties) for an outdoor exposure under the sun, at maximum temperature 80°C.

4.0**APPLICATION**

Cleaning and priming of surfaces and application of wrapping materials shall be carried out in accordance with the Manufacturer's instructions in conjunction with the requirements of **Job Spec. No. 831/2**.