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مدیریت پژوهش و فناوری

Research and Technology Management

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IGS

Iranian Gas Standards

Specification for :

مشخصات فنی :

***Flange Insulation Kit**

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***DRAFT**

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1.0 SCOPE

This specification covers the minimum requirements for the design , materials , manufacturing , inspection and testing , marking and packing of flange insulation kit , intended for electrical isolation of cathodically protected pipelines and to seal the flanges and prevent leakage of the transported gas within the piping system .

2.0 REFERENCES

Throughout this standard the following standards and codes are referred to. The applicability of changes in codes and standards that occur after the date of this specification shall be mutually agreed upon by the purchaser and manufacturer.

- 2.1 NACE RPO286-(1986):** Standard recommended practice the electrical isolation of cathodically protected pipelines

- 2.2 ANSI B16.21-(1992) :** Nonmetallic flat gaskets for pipelines flanges

2.3 ANSI B 16.5-(1996) : Pipe flanges and flanged fitting NPS ½ through NPS 24

2.4 API 605 - (1988) : Large – diameter carbon steel flanges

2.5 ASTM D 709- (1987) : Standard specification for laminated thermosetting materials

2.6 ASTM B 633-(1985) : Standard specification for electrode posited coatings of zinc on iron and steel

2.7 ASTM D 229-(1991) : Standard test methods for rigid sheet and plate materials used for electrical insulation

2.8 ASTM D 1505-(1985) : Standard test method for density of plastics by the density – gradient technique

2.9 ASTM D 374-(1988) : Standard test methods for thickness of solid electrical insulation

2.10 ASTM D 149- (1990): Standard test method for dielectric breakdown voltage and dielectric strength of solid electrical insulating materials at commercial power frequencies

2.11 ASTM D 570-(1988) : Standard test method for water absorption of plastics

2.12 ASTM D 638-(1989) : Standard test method for tensile properties of plastics

2.13 ASTM D 883-(1990) : Standard definitions of terms relating to plastics

2.14 ASTM F118-(1985) : Standard definitions of terms relating to gaskets

3.0 DEFINITIONS

GASKET

A material , which maybe clamped between faces , and acts as a static seal and electrical insulation . Gaskets are cut , formed or molded in to the desired configuration .

High density polyethylene plastics , (HDPE)