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شرکت ملی گاز ایران
مدیریت پژوهش و فناوری
امور تدوین استانداردها

IGS

مشخصات فنی خرید

گریس آب بند و روانکار برای شیرهای سماوری و توپی

Sealant and Lubricant grease for Ball and Plug Valves



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باسلام،

به استحضار می‌رساند در جلسه ۱۹۹۹ مورخ ۱۴۰۱/۱۱/۱۶ هیأت مدیره، نامه شماره گ/۹/۰۰۰/۱۸۸۹۶۸ مورخ ۱۴۰۱/۱۱/۱۲ مدیر پژوهش و فناوری در مورد تصویب نهایی مقررات فنی شرکت ملی گاز ایران به شرح زیر مطرح و مورد تصویب قرار گرفت.

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Foreword

This standard specification is intended to be mainly used by N.I.G.C. and contractors, and has been prepared base on interpretation of recognized standards and technical documents, as well as knowledge, backgrounds and experiences in gas industries at national and international levels.

Iranian Gas Specification (IGS) are prepared, reviewed and amended by technical standard committees within NIGC standardization division of research and technology management and submitted to "the standards council of NIGC" for approval.

IGSs are subjected to revision, amendment or withdrawal, if required, and thus the latest edition of IGS shall be checked / inquired by NIGC'S users.

This standard must not be modified or altered by NIGC employees or its contractors. Any deviation or conflicts between this specification and other applicable standards, codes, procedure or well-known manufacturer's specifications must be resolved in writing by the user or its representative through Manager, Engineering Department or standardization division of NIGC.

The technical standard committee welcomes comments and feedbacks from concerned or interested corporate and individuals about this standard, and may revise this document accordingly based on the received feedbacks.

General Definitions

Throughout this standard the following definitions, where applicable, should be followed:

- 1- "STANDARDIZATION DIV." is organized to deal with all aspects of industry standards in NIGC. Therefore, all enquiries for clarification or amendments are requested to be directed to mentioned division.
- 2- "COMPANY": refers to National Iranian Gas Company (NIGC).
- 3- "SUPPLIER": refers to a firm who will supply the service, equipment or material to IGS specification whether as the prime producer or manufacturer or a trading firm.
- 4- "SHALL ": is used where a provision is mandatory.
- 5- "SHOULD": is used where a provision is advised only.
- 6- "MAY": is used where a provision is completely discretionary.

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Contents

Content	Page
1. SCOPE.....	3
2. REFERENCES.....	3
3. REQUIREMENT.....	3
4. INSPECTION	6
5. PACKING	7
6. MARKING	7
7.STORAGE LIFE	7
 APPENDIX A - "Method for the Determination of the Resistance of Grease to Fuel".....	 8
APPENDIX B - "Method for the Determination of the Resistance of the Grease to Water and Aqueous Alcohol".....	10
APPENDIX C - "Method for the Determination of the Stability and Corrosivity of Grease at Elevated Temperatures".....	11
APPENDIX D- (Informative - "Classification of Packaging".....	13

1. SCOPE

This standard specification covers the NIGC requirements for sealant/lubricant grease which is used for sealing or lubricating of ball and plug valves concerning in natural gas transmission and distribution systems.

Note1: owner shall specify the range of temperature application of the grease.

2. REFERENCES

ASTM D 217 (2021a) "Standard Test Method for Cone Penetration of Lubricating Grease"

ASTM D 1403 (2020 b) "Standard Test Method for Cone Penetration of Lubricating Grease Using One-Quarter and One-Half Scale Cone Equipment"

ASTM D 1742 (2020) "Standard Test Method for Oil Separation from Lubricating Grease during Storage"

ASTM D 1743 (2022) "Standard Test Method for Determination Corrosion Preventive Properties of Lubricating Grease"

ASTM D 2265 (2022) "Standard Test Method for Dropping Point of Lubricating Grease Over Wide Temperature Range"

ASTM D 4048 (2022) "Standard Test Method for Detection of Copper Corrosion from Lubricating Grease"

ASTM D 2595 (2017) "Standard Test Method for Evaporation Loss of Lubricating Grease Over Wide Temperature Range"

DEF STAN 91-6 "Grease, Plug Valve, Hydrocarbon Resistant", NATO Code G-363, Joint Service Designation XG-235, August 2002"

3. REQUIREMENT

3.1 Materials

The sealant/ lubricant grease contains base oil, gelling agent and solid fillers. Base oil shall not be mineral, animal and pure vegetable.

The sealant when examined visually shall appear homogeneous, free of lumps, crust and separated oil.

3.2 Characteristics

Characteristics and performance of grease shall be complied with the requirements given in Table 1 when tested in accordance with the specified methods for every batch grease production.