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مشخصات فنی خرید

ماده بودارکننده گاز طبیعی

Odorant as Used for Odorization of Natural Gas



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باسلام،

به استحضار می‌رساند در جلسه ۱۹۴۸ مورخ ۱۴۰۰/۰۹/۰۱ هیأت مدیره، نامه شماره گ ۱۰۶۶۱۷/۰۰۰/۹ مورخ ۱۴۰۰/۰۸/۲۴ مدیر پژوهش و فناوری درمورد 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 ISO 13734 Standard (2013), technical documents, as well as knowledge, backgrounds and experiences in gas industries at national and international levels and Specifications of produced odorant in south Pars Gas Refinery.

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, 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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1. SCOPE

This standard specification covers odorant specification that suitable for odorization of natural gas for public gas supply. This section specifies materials, properties, test methods, packaging, handling and storage of odorant.

The specifications produced odorant of South Pars Gas Refinery (SPGC) for natural gas odorization shall be in accordance with APPENDIX B.

2. REFERENCES

These standard specifications are referred to following references. The purchaser and the supplier shall mutually agree upon the applicability of changes in standards that occur after the date of this standard specification.

ISO 13734 (2013) "Natural Gas–Organic Components Used as Odorants–Requirements and Test Methods"

ISO 15750-2 (2002) "Packaging–Steel drums – Part 2: Non-Removable Head (Tight Head) with a Minimum Total Capacity of 212 l, 216.5 l and 230 l"

ISO 3015 (2019) "Petroleum and Related Products from Natural or Synthetic Sources–Determination of Cloud Point"

ISO 4626 (2008) "Volatile Organic Liquids–Determination of Boiling Rang of Organic Solvents used as Raw Materials"

IPS-E-TP-100 (1) (2009) "Engineering Standards for Paints"

HSE-IN-109(0)-97 "Instruction for Storage, Handling, Transportation, Injection and Measurement of Natural Gas Odorant"

3. DEFINITIONS

Odorant

A defined mixture of organic sulfur compounds with strong, persistent and unpleasant odor added to natural gas and can be detected at very low concentration and recognized as a Gas smell by most people and distinctive warning odor so gas leaks can be detected at concentrations below their lower flammability limit.

Note: This standard specification covers natural odorant, which is generally mixture of paraffinic mercaptans (such as isopropyl mercaptan, normal propyl mercaptan, tertiary butyl mercaptan, normal butyl mercaptan, isobutyl mercaptan).

Paraffinic mercaptan are any of a class of organic chemical compounds having the general formula $C_nH_{2n+1}S$.