



DRAFT INDIAN STANDARD IN WIDE CIRCULATION

Reference : PCD 25(25990)WC

Date : 25 June 2024

TECHNICAL COMMITTEE : Lubricants And their Related Products, PCD 25

To,

All concerned

Dear Madam/Sir,

The following document has been prepared by the Lubricants And their Related Products Sectional Committee, PCD 25. Please [click here](#) to view the document.

Document Number : PCD 25 (25990) WC

Title of the document : HYDRAULIC FLUID POWER FIRE-RESISTANT FLUIDS REQUIREMENTS AND GUIDELINES FOR USE

Document Type : Revision of Indian Standard (IS 15178 : 2021)

This document has following salient features which may require specific attention for your valuable comments:

- 1) In hydraulic fluid power systems, power is transmitted and controlled through a liquid under pressure within an enclosed circuit. The most widely used liquid for hydraulic power systems is mineral oil which has the advantages of excellent lubricity, availability in a wide range of viscosities and reasonable cost.*
- 2) While not readily ignited in bulk, mineral oil is nevertheless flammable and the high pressures associated with hydraulic systems can lead to a release of fluid which is easily ignited. In circumstances where ignition is likely, such as in a steel mill, or where the released fluid must not propagate a fire, such as in a coal mine, an alternative fire-resistant fluid must be used. Fire-resistance and physical properties such as viscosity and lubricity vary widely among the several types of fluid available. It is therefore important to select a fire-resistant fluid which matches its proposed application and the perceived hazards in use.*
- 3) This document specifies the operational characteristics for the various categories of fire-resistant fluids defined by ISO 6743-4. It includes requirements and guidelines for use of these fluids and specifies the factors to consider when selecting a fluid from these categories for a proposed application. This document identifies difficulties which can arise from the use of such fluids and indicates how they can be minimized. Procedures are given for replacing one fluid with another from a different category. Health and safety aspects when handling and disposing of fire-resistant fluids are also covered.*
- 4) This standard was originally published in 2002 which was based on ISO 7745 : 1989 'Hydraulic fluid power — Fire resistant (FR) fluids — Guidelines for use'. The first revision was carried out for adoption of revised ISO 7745 : 2010 Hydraulic fluid power — Fire-resistant (FR) fluids — Requirements and guidelines for use. This (second) revision has been undertaken to adopt the latest version ISO 7745 : 2024.*

Please examine the document and share your comments regarding further improvement in the document.

Last date for sharing the comments is : 24 August 2024

The comments should be shared in the prescribed template through this portal only; and the comments so received shall be taken up by the Sectional Committee for necessary action. For any other query, please write an email at pcd@bis.gov.in to the undersigned at Bureau of Indian Standard, Manak Bhawan, 9, Bahadur Shah Zafar Marg, New Delhi.

In case no comments are received, we would presume your approval of the documents. However, in case we receive any comments on the document, the same shall be put up to the Sectional Committee for necessary action.

Thanking You,

Yours faithfully,
(MEENAL PASSI)
Head (Petroleum, Coal and Related Products Department)
Email: pcd@bis.gov.in



व्यापक परिचालन में मसौदा(दे)

हमारा सन्दर्भ : PCD 25(25990)WC

दिनांक : 25-06-2024

तकनीकी समिति : Lubricants And their Related Products Sectional Committee, PCD 25

प्राप्तकर्ता : रूचि रखने वाले सभी निकाय

महोदय/या,

निम्नलिखित मसौदा तैयार किया गया है :

प्रलेख संख्या : PCD 25 (25990) WC

शीर्षक :

कृपया इस/इन मानक(को)/संशोधन(नो) के मसौदे(दो) का अवलोकन करें और अपनी सम्मतियाँ यह बताते हुए भेजें कि यदि ये मानक(को) के संशोधन(नो) के रूप में प्रकाशित हो तो इन पर अमल करने में आपके व्यवसाय अथवा कारोबार में क्या कठिनाइयां आ सकती हैं।

सम्मतियाँ भेजने की अंतिम तिथि : 24 August 2024

सम्मतियाँ, यदि कोई हों तो, कृपया यहाँ क्लिक करके ऑनलाइन पोर्टल के माध्यम से ऊपर दी गयी अंतिम तिथि तक दर्ज कराएं।

यह/ये प्रलेख भारतीय मानक ब्यूरो की वेबसाइट www.bis.gov.in पर भी उपलब्ध है/हैं।

धन्यवाद।

भवदीय/भवदिया,
विभाग प्रमुख का नाम : MEENAL PASSI
(Petroleum, Coal and Related Products Department)
ई-मेल : pcd@bis.gov.in