Technical Data Sheet

HPEG-2400 (Hydroxy Polyethylene Glycol-2400) · CAS 37225-26-6 · CH2 =C (CH3) CH2 O (CH2 C H 2 O)Ø5Ü[

Technical Data Sheet (TDS) - HPEG-2400 (DRAFT)

Product Name: HPEG-2400
Chemical Type: Polyoxyethylene Isopentenyl Ether
Supplier: Moonarc Chemicals

Product Description

HPEG-2400 is a specialized polyether monomer used in the synthesis of high-performance polycarboxylate water reducers. It is produced using narrow-range ethoxylation technology to ensure high reactivity and consistent performance.

Technical Specifications

• Appearance: White to yellowish flake
• Hydroxyl Value (mg KOH/g): 21 - 25
• pH Value (1% aq. solution): 5.0 - 7.0
• Double Bond Retention (%): "e 95.0
• Moisture Content (%): "d 0.2
• Solubility: Soluble in water

Features & Benefits

• Excellent storage stability.
• High efficiency in free-radical polymerization.
• Produces PCE with low dosage requirements and high water reduction.

Application Notes

During the synthesis of PCE, HPEG-2400 is typically reacted with unsaturated acids (like Acrylic Acid) in the presence of an initiator system. We recommend maintaining temperature control between 40-60°C during the polymerization phase to preserve the molecular architecture.

Note: Technical values are typical and subject to batch variations.

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EMAIL
info@themoonarc.com

INSTAGRAM
instagram.com/themoonarcfzco

WEBSITE
themoonarc.com

Global offices

UNITED ARAB EMIRATES

The Moonarc FZCO

101, A2 Building, IFZA Dubai Silicon Oasis, Dubai. P.O Box 342001

INDIA

Moon Arc

B-39 1st Floor, DDA Shed, Okhla Phase II, New Delhi-110020

UZBEKISTAN

Lunar Kimyo Impeks

Samarkand, Uzbekistan

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