



INDIA GLYCOLS LTD, KASHIPUR  
(CERTIFICATE OF ANALYSIS)

Date : 23.05.2013

Customer : VISHAL ASSOCIATES

Delivery : 61752806

Product: ALPHOX 200 (ETHOXYLATE) /

Batch No: 130639

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No	Parameter	Specification	Analysis
1	Appearance @25°C	Clear Liquid	Complies
2	pH ( 1% aq.soln.@27°C)	6.0-7.5	6.30
3	Hydroxyl value(mgKOH/g)	85.0-91.0	89
4	Moisture w/w(%)	0.20 Max	0.08
5	Cloud point ( 1% aq.soln.)(°C)	57.0-60.0	58
6	Colour (APHA)	50 Max	20

Remarks : The Product APPROVED with respect to above Specifications

\* This is computer generated document from ERP, Hence no signature is required.

Works : A1-Industrial area, Bazpur Road KASHIPUR, Distt .U.S.Nagar(U.K) 244713  
Phone : 05947-275320 Hunting-(261313-314), FAX : 05947-275315

## ALPHOX

200

*Polyoxyethylene alkyl  
aryl ether*

ALPHOX 200 is an ethylene oxide condensate of alkyl phenol. It is a pale coloured liquid soluble in water, vegetable oils, alcohol, glycol ether, chloroform and insoluble in mineral oil and kerosene.

ALPHOX 200 is manufactured by INDIA GLYCOLS LIMITED at its plant at Kashipur, U.P. using state of the art second generation "PRESSINDUSTRIA" loop reactor which is currently the largest alkoxylation facility in India. The product is made in the plant with the fully automated DCS system which ensures consistent quality of ALPHOX 200.

### APPLICATIONS

ALPHOX 200 is a multipurpose, effective and versatile surfactant finding applications in a number of diversified industries. It has excellent emulsification, detergent, penetration and dispersion properties.

#### • TEXTILES

ALPHOX 200 is useful as a powerful wetting and scouring agent in many textile processing applications. It also aids bleaching, desizing actions due to excellent wetting and penetration action. It is non-substantive to wool and can be used for scouring greater poundage of wool than anionics. It is also useful in dye levelling and kier boiling operations.

#### • AGRICULTURE

ALPHOX 200 is useful as a non-ionic component along with anionic surfactant for formulation of emulsifiers for pesticidal sprays.

#### • LEATHER

ALPHOX 200 is useful as an ingredient in the formulation of tanning agents.

#### • PAINTS

ALPHOX 200 is useful as pigment wetting, and as an emulsifier in paint formulations.

#### • DETERGENTS

ALPHOX 200 is useful at low concentrations for formulation with anionics to obtain improved detergency. Blended with quarternary ammonium compounds it can yield germicidal cleaners for institutional cleaning. It can also be formulated as a liquid detergent with softeners.

#### • METAL CLEANING

ALPHOX 200 is a powerful detergent at low concentrations. Therefore, it is useful in the removal of heavy greases and industrial metal cleaning.

**VISHAL ENTERPRISES**  
Shop No. 20 Archana Apartment,  
East Maredpally,  
SECUNDERABAD-500 026.  
Tel, Fax : 040-27702124  
Tel. : 040-27702855

## SPECIFICATIONS

PARAMETERS	UNIT	SPECIFIED LIMITS	TEST METHOD
1. Appearance		Clear liquid may tend to haze on standing at lower temperature	
2. Moisture	% (w/w)	1% max	ASTM-E-203
3. pH	1% Aqueous solution at 25° C	5.5-7.5	ASTM-D-1172
4. Colour	APHA	100 Max	ASTM-D-1209 84
5. Hydroxyi value	mg KOH/g	63-95	ASTM-D-4252
6. Cloud point	1% AQ. soln. °C	55-65 Max	ASTM-D-2024

## PACKING

The product is supplied in MS/HMHDPE barrels of 210 kgs net weight each.

## STORAGE

ALPHOX 200 is of low toxicity and may cause skin and eye irritation. It is not corrosive to mild steel and can be stored in unlined MS tanks provided water ingress is avoided. The suggested bulk storage temperature is 25° C or above.

Prolonged contact of ALPHOX 200 with skin is not recommended and personnel handling ALPHOX 200 are recommended to use safety glasses, side shields and protective gloves. Any splashes in the eye or on the skin must be removed by copious rinsing with water.