

N-HEXANE

USES: AS POLIMERIZATION SOLVENT FOR OBTAIN HIGH DENSITY OF POLYPROPYLENE AND POLYETHYLENE, AS SOLVENT IN FOOD INDUSTRY FOR VEGETABLE OIL EXTRACTION, IN THE RUBBER INDUSTRY

PROPERTY	UM	LIMITS		TEST METHOD
		Min.	Max.	
Appearance		Colorless, transparent, clear		Visual
Density at 15 ⁰ C	kg/m ³	663	690	SR EN ISO 12185-03 SR EN ISO 3675-02/C91:2005 ASTM D 4052-16 / ASTM D 1298-12b(2017)
Distillation 5...95% (v/v) distill in the temperature range	⁰ C	66	70	SR EN ISO 3405-11 ASTM D 86-17
Benzen content	ppm (weight)	-	100	ASTM D 6229-06(10)
N-hexane content	%(m/m)	38	-	ASTM D 5134-13
Bromine Index	mgBr/100g	-	100	ASTM D 2710-09(2013)
Water content	%(m/m)	-	0.02	SR EN ISO 12937-01/C91:2014 ASTM D 6304-16e1
Sulphur content	mg/kg	-	1	ASTM D 5453-09
Reaction of aqueous extract		Neutral		SS 101
Corrosion on copper blade (3h la 40 ⁰ C)		-	1 a	SR EN ISO 2160-03 ASTM D 130-12

Reaction of aqueous extract

In a conical flask are introduced 100 cm³ of sample and 30 cm³ water. Heat stirring, on water bath, till to 70⁰C. Mixture is placed in a separating funnel, shake well and cools. Will separate the two liquid layers. Aqueous layer is filter and 10 cm³ of the filtrate are introducing in two eprouvettes. Add a drop of phenolphthalein in the first eprouvette and a drop of metiloranj in the second.

If in the first eprouvette appear the pink colour, is notes the reaction of aqueous extract-alkaline.

If in the second eprouvette appear a red coloration, is notes the reaction of aqueous extract -acid

In both cases, if there are no color changes, is notes reaction of aqueous extract – neutral.

Quality control: the control is done on lot (batch)

The batch size correspond to tank capacity, max.1000 tones for delivery in trucks and tankers and will consist of the same product type.

For each lot must to check all quality coefficients provided in standard specification of the product/type.

The product must to comply with all provided characteristics. If not, the lot is rejected.

In case of litigation, quality control will be made on samples taken in accordance with sampling procedure and hold for this case.

Sampling procedure: SR EN ISO 3170-2004/C91:2005/ASTM D 4057-12

Information on product classification, packing, labelling, handling, transport and storage: according to Safety Data Sheet 3V.

The integrated Quality-Environment-Occupational Health and Safety Management System is certified by DNV-GL according to the following standards:

- ISO 9001
- ISO 14001
- BS OHSAS 18001

The test lab is accredited by RENAR, in compliance with SR EN ISO/CEI 17025.

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