



KISUMA CHEMICALS BV
Billitonweg 7
9641 KZ Veendam
P.O. Box 400
9640 AK Veendam
The Netherlands

Tel. +31 598 666 766
Fax. +31 598 690 792

support@kisuma.com

DHT-4V

Mg-Al Hydrotalcite as halogen scavenger in resins.

Applied during production and processing of polyolefins

Features:

DHT-4V is an antiacid that reacts with and deactivates the residual quantities of acidic substances associated with Ziegler-Natta, Friedel Craft, Metallocene or other acid catalysts used to produce polymers or elastomers. The superiority of DHT-4V compared to other products is due to its particular mechanism of adsorbing acids based on anion-exchange.

Specified and Typical Properties:

	Typical value	General specification	units	KCBV method
Appearance	White Odorless Powder	WOP	-	0012A
Molar ratio MgO/Al ₂ O ₃	4.3	min 4.0 max 5.0	-	0102
Loss on Drying (105°C 1 hr)	0.3	max 0.5	w/w%	0001B
Specific Surface Area	11	min 5 max 15	m ² /g	0008A
Secondary particle size Average	0.5	min 0.30 max 0.60	µm	0007B
< 1 µm		min 85.0	vol %	
> 5 µm		0.0	vol %	
Heavy metals	5	max 10	ppm	0004A
Iron	40	max 100	ppm	0102

Typical properties are given for information only and can not be used for specification

Other typical values:

	Value	Units	KCBV /Kyowa method
pH of suspension	8.5	-	0006A
Al (as Al ₂ O ₃)	19	w/w%	0102
Mg (as MgO)	34	w/w%	0102

Above properties are given for information only and can not be used for specification

Other characteristics:

	Value	Units	Method
Mn	3	ppm	ICP
Hardness (Mohs)	2.0-2.5	-	ASTM
Density	2.1	-	ASTM
Refractive Index	1.5	-	ASTM
Apparent specific gravity	0.5	1000 *Kg/m ³	0005A

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Packaging

DHT-4V is standard packed in 20 kg PE bags on a pallet identified by nett weight and lot#.

CoC and MSDS of DHT-4V are available upon request.

Other information

DHT-4V is a non-kosher offending product, produced in the Netherlands by Kisuma Chemicals BV.

DHT-4V is shipped under CAS-number 11097-59-9 as Aluminium Magnesium Hydroxide Carbonate Hydrate, a synthetic hydrotalcite like product for which the following applies:

Product

TSCA : listed

DSL : listed

EINECS : listed

AICS : listed

Application

(EU) 10/2011 (plastic materials and articles intended to come in contact with foodstuffs) : listed

FDA : applicable to GRAS

The following patent applies to this product and its application.

US 6 313 208 B1

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