



Energol WM2, WM6, WT1

Description; Description

Energol WM2 and WM6

Two grades of white oil for the pharmaceutical, food, cosmetic and plastics industry. They are colourless, odourless and tasteless and conform to the purity standards of British Pharmacopoeia.

Energol WT1

A highly refined white oil for the cosmetic, veterinary, printing, plastics, and textile industries and all applications where medicinal purity is not required. It can be used for manufacturing or lubricating purposes.

Applications; Applications

Energol WM oils are used for machine lubrication where, for reasons of hygiene, there is a possibility of contact with foodstuffs, medicines or cosmetics.

They are sometimes used in the lubrication of CO₂ compressors in the food industry. In these applications,

however, white oils have only limited oxidation stability and lubrication properties, so particular attention must be paid to the operation and maintenance of such plant.

Main Benefits; Main Benefits

Energol WM2 and WM6 meet the purity requirements of British Pharmacopoeia and conform to the purity specifications given in the Minerals Hydrocarbons in Food regulations 1966 (SI No.1073), American FDA Regulation No 178.3620(a).

Energol WT1 complies to the American FDA regulation No 178.3620(b) and Toys (Safety) regulations 1974 SI 1367.

Storage; Storage

All packages should be stored under cover. Where outside storage is unavoidable drums should be laid horizontally to avoid the possible ingress of water and the obliteration

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of drum markings. Products should not be stored above 60°C, exposed to hot sun or freezing conditions.; of drum markings. Products should not be stored above 60°C, exposed to hot sun or freezing conditions.

Health, Safety and Environment; Health, Safety and Environment

Health, safety and environmental information is provided for this product in the Materials Safety Data Sheet. This gives details of potential hazards, precautions and First Aid measures, together with

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environmental effects and disposal of used products.; Health, safety and environmental information is provided for this product in the Materials Safety Data Sheet. This gives details of potential hazards, precautions and First Aid measures, together with environmental effects and disposal of used products.

the product is used other than as directed, advice should be obtained from the local BP office.; BP Lubricants and Special Products Ltd. or its subsidiaries will not accept liability if the product is used other than in the manner or with the precautions or for the purpose/s specified. Before the product is used other than as directed, advice should be obtained from the local BP office.

Typical Characteristics; Typical Characteristics

Test Methods; Test Methods	Units; Units	Grade ;; Grade :
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WM 2 WM 6 WT 1		
Colour Saybolt ASTM D156	>+30	
	>+30 -	
WOMA - 1 1 -		
Density at 15°C ASTM D4052	kg/m ³	
	850 878 849	
Dynamic Viscosity at 20°C	mPas	30
	210 -	
Kinematic Viscosity at 20°C		
ISO3104/ASTM D445	mm ² /s	36 240
	-	
	at 40°C	15.5 68 15.3
	at 100°C	3.45 7.7 3.5
Flash Point (COC) ISO2592/ASTM		
D92 °C	200 220 189	
(PMC) ISO2719/ASTM D93 °C	189	
	209 -	
Pour Point ISO3016/ASTM D97 °C		-
	15 -30 -12	
Aniline Point ISO2977/ASTM D611 °		
	C 105 110 -	
Neutralisation Value ASTM D664		
mgKOH/g	0.01 0.01 -	
Unsulphonated residue ASTM D664		
%wt	100 100 -	
Refractive Index nD20 ASTM D1747		
	1.466 1.479 -	
Viscosity Gravity Constant ASTM		
D2140	0.806 0.814 -	
CA ASTM D2140 %	1 1 -	
CN ASTM D2140 %	37 47 -	
CP ASTM D2140 %	62 52 -	
UV-Absorption at 260nm ASTM		
D2008	0.0002 0.0003 -	

Food and Drug Administration

172.878 Yes Yes -
 (FDA) Regulations 172.3620(a) Yes
 Yes -

European Pharmacopoe Europe Yes
 Yes -
 2. Edition
 Pharmacopoeia Francaise X France
 Yes Yes -

Deutsches Arzneibuch Germany
 9.Ausgabe(DAB 9)
 - Paraffinum Liquidum No Yes -
 - Paraffinum Perliquidum Yes No -

Bundesgesundheitsamt (BGA)
 Germany Yes Yes -
 155. Mitteilung

British Pharmacopoeia 1988 Yes Yes
 Yes

The above figures are typical of those obtained with normal production tolerance and do not constitute a specification.; The above figures are typical of those obtained with normal production tolerance and do not constitute a specification.

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 Witan Gate House Lubricants Helpline: 0845 - 6031080
 500/600 Witan Gate Fax: 0845 - 6031070
 MILTON KEYNES
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