



ELFAT – WOil G3™ (White Mineral Oil)

Technical Datasheet

1. Technical Datasheet

Property	Specification
Physical Properties	
Appearance	Clear, colorless, odorless, and tasteless oily liquid.
Physical Form	Clear, colorless, odorless, and tasteless oily liquid.
Odor	Odorless or has a slight petroleum-like odor.
Molecular Weight	Not applicable (mixture).
Density / Specific Gravity	0.845 - 0.905 (Specific Gravity)
Viscosity	10 to 280 cSt @ 40°C (general range for white mineral oils).
Refractive Index	n ₂₀ /D 1.467
Assay / Purity	>99%
Chemical Properties	
Ionic Nature	Non-polar.
Incompatibilities	Strong oxidizing agents (e.g., nitric acid, chromic acid, hydrogen peroxide, bromine).
Hazardous Reactions / Decomposition Products	Upon combustion or when heated to decomposition, may form carbon monoxide and carbon dioxide.
Thermal Properties	
Melting Point	-60 to -9 °C (-76 to 16 °F)
Boiling Point	> 218 °C (> 424 °F)
Flash Point	>115 °C (Open Cup)
Autoignition Temperature	325 - 355 °C (617 - 671 °F)
Decomposition Temperature	>350 °C
Thermal Stability	Stable under ordinary conditions of use and storage.
Solubility	
Solubility in Water	Insoluble.
Solubility in Chloroform	Soluble.
Solubility in Benzene	Soluble.

2. Processing Methods

Mineral Oil Emulsion (Laxative)

An oral oil-in-water emulsion used as a lubricant laxative for chronic constipation. The emulsion is stabilized to keep the oil suspended in water. It should be shaken well before use.

Key Ingredients	Indicative Dosage (% w/w)
Mineral Oil	50.0%
Acacia	12.5%
Syrup	10.0%
Vanillin	0.04%
Alcohol	6.0%
Purified Water	q.s. to 100%

Basic Skin Lotion

A simple, moisturizing skin lotion where mineral oil acts as an emollient, forming a protective barrier to prevent moisture loss.

Key Ingredients	Indicative Dosage (% w/w)
Mineral Oil	10.0 - 25.0%
Cetyl Alcohol	2.0 - 5.0%
Stearic Acid	1.0 - 3.0%
Glyceryl Monostearate	1.0 - 3.0%
Glycerin	3.0 - 5.0%
Triethanolamine	0.5 - 1.0%
Preservative	q.s.
Purified Water	q.s. to 100%

3. Dosing by Application

Application	Recommended / Max Dosage
Cosmetics (General)	1% - 99% depending on the product (e.g., skin creams, lotions, sunscreens, hair gels, bath oils).
Skin Protectant Products	1% - 100%
Oral Laxative (Adult)	15-45 mL per day, as a single dose or in divided doses.
Pharmaceutical Tablet Release Agent	Used as a processing aid; levels vary.



Application	Recommended / Max Dosage
Food (Direct Addition, e.g., release agent)	Must not exceed the amount reasonably required to accomplish the intended technical effect.

The information and data contained herein are believed to be accurate but may not be all inclusive and should only be used as a guide. The information is furnished upon the condition that the person receiving it shall make his own determination of the suitability of the product for his particular use and on condition that they assume the risk of the use thereof.

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