



ELSURFAC – SON78™ (Soap Noodles)

Technical Datasheet

1. Technical Datasheet

Property	Specification
Physical Properties	
Appearance	White to creamy-white granular or pellet-like pieces
Physical Form	Solid
Odor	Odorless or very mild
Molecular Weight (g/mol)	222.31
Density or Specific Gravity	1.01 g/cm ³
Density	1.01 g/cm ³
Thermal Properties	
Melting Point	152°C~156°C
Boiling Point	201 (decomposes)
Thermal Stability	Stable under normal storage; avoid extreme heat and freezing
Chemical Properties	
Incompatibilities	Strong oxidizing agents; avoid exposure to ultraviolet light and sunlight to prevent quality loss
Hazardous Reactions	None under normal use
Water Solubility	Soluble

2. Processing Methods



Bath bar

Melt soap noodles gently at controlled temperatures to avoid scorching and ensure smooth consistency. Incorporate additives and fragrances during the cooling phase to preserve their integrity and achieve uniform distribution.

Key Ingredients	Indicative Dosage (% w/w)
Soap Noodles	70-90%
Water	2-5%
Glycerin	1-3%
Fatty Acids (e.g., Stearic Acid)	3-8%
Titanium Dioxide	1-2%
Fragrance	0.2-1%
Colorants	0.01-0.2%
Additives (e.g., moisturizers, preservatives)	0.5-2%

Detergent bars

Melt soap noodles slowly at moderate temperatures to maintain integrity and prevent discoloration. Mix thoroughly with other detergent ingredients during the molten phase for even distribution before molding.

Key Ingredients	Indicative Dosage (% w/w)
Soap Noodles	40-60%
Sodium Lauryl Sulfate	15-25%
Sodium Tripolyphosphate (STPP)	10-15%
Sodium Carbonate	5-10%
Water	5-10%
Sodium Silicate	1-3%
Fragrance	0.5-1%
Colorants	<0.5%



Laundry soaps

Melt soap noodles uniformly with gentle agitation to prevent burning and ensure a smooth base. Blend in builders and additives during the molten stage for consistent texture and enhanced cleaning performance.

Key Ingredients	Indicative Dosage (% w/w)
Soap Noodles	60-80%
Sodium Silicate	10-15%
Fillers (e.g., Talc, Kaolin)	5-10%
Sodium Carbonate	3-5%
Water	2-5%
Fragrance	0.2-0.5%
Colorants	- 0.2%

Body Wash

Blend with mild surfactants and conditioning agents to improve skin feel and maintain product stability.

Key Ingredients	Indicative Dosage (% w/w)
Water (Aqua)	60-70%
Soap Noodles	5-10%
Sodium Laureth Sulfate	8-12%
Cocamidopropyl Betaine	4-6%
Glycerin	3-5%
PEG-7 Glyceryl Cocoate	1-2%
Preservative	0.5-1%
Fragrance	0.2 - 0.5%

3. Dosing by Application

Products	Authorized dosage %
Laundry Soap Bars	60-98%
Shampoo Bars	50-90%

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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