

**TEGIN® BL 315**  
**TEGIN® G 1100 Pellets**  
Pearlizing agents

- bright white pearlizing effect
- stabilizing
- dispersing agent
- high density
- based on vegetable raw materials

Personal Care

## INCI names (CTFA names)

TEGIN® G 1100 Pellets    Glycol Distearate  
TEGIN® BL 315            Glycol Distearate

<b>Chemical and physical properties (not part of specifications)</b>	<b>TEGIN® G 1100 Pellets</b>	<b>TEGIN® BL 315</b>
Form (25 °C)	pellets	pellets
Colour	ivory	ivory
Melting point	~ 61 °C	~ 65 °C

<b>Solubility at 25 °C at 10 % concentration in</b>	<b>TEGIN® G 1100 Pellets</b>	<b>TEGIN® BL 315</b>
Water	I	I
Vegetable oil	SW	SW
Paraffin oil	SW	SW

DW = dispersible warm, SW = soluble warm, I = insoluble

### Properties

TEGIN® G 1100 Pellets and TEGIN® BL 315 are pearling agents. They form in surfactant formulations a bright white opalescence. In O/W emulsions they have consistency building and stabilising properties.

The higher melting point of TEGIN® BL 315 causes at higher temperatures a better stability of the pearling effect.

### Application

- shampoos
- shower and bath preparations

TEGIN® G 1100 Pellets and TEGIN® BL 315 give a brilliant pearling effect to shampoos, shower and foam baths.

Hot dispersed in surfactant systems TEGIN® G 1100 Pellets and TEGIN® BL 315 form pearling crystals while cooling down.

The crystal forming is supported of suitable crystallization aids, e.g. TEGO® Alkanol L 4 (Laureth-4), TEGOSOFT® PC 31 (Polyglyceryl-3-Caprate) or alkanolamides.

### Recommended usage concentration

0.3 – 2 %

### Packaging

600 kg pallet (24 x 25 kg bag)

### Hazardous goods classification

Information concerning

- classification and labelling according to regulations for transport and for dangerous substances
- protective measures for storage and handling
- measures in accidents and fires
- toxicity and ecological effects

is given in our material safety data sheets.

## Guide Line Formulations

<b>2 in 1-Shampoo UK 59/18</b>	
<b>Phase A</b>	
Sodium Laureth Sulfate (28 %)	33.0 %
TEGO® Betain 810 (Capryl/Capramidopropyl Betaine)	1.0 %
TEGIN® G 1100 Pellets	1.5 %
REWOMID® C 212 (Cocamide MEA)	1.7 %
Parfume	0.5 %
Water	37.6 %
TEGO® Betain F 50 (Cocamidopropyl Betaine)	11.7 %
<b>Phase B</b>	
Sodium Laureth Sulfate (28 %)	10.0 %
TEGO® Alkanol 16 (Cetyl Alcohol)	0.5 %
ABIL® Wax 9814 (Cetyl Dimethicone)	2.5 %
Preservatives	q.s.
Citric Acid	ad pH ≈ 5,5
<b>Preparation:</b>	
<ol style="list-style-type: none"> <li>Mix the ingredients up to the perfume, heat up to 70 °C (the TEGIN® G 1100 Pellets has to be melted). Add the perfume at a temperature below 50 °C, then solubilize the water and the TEGO® Betain F 50.</li> <li>Heat the Sodium Laureth Sulfate up to 60 °C, then solubilize the TEGO® Alkanol 16 and then the ABIL® Wax 9814. Stir phase B into phase A and cook down.</li> </ol>	

<b>Antidandruff Shampoo UK 73/3</b>	
<b>Phase A</b>	
TEGIN® G 1100 Pellets	3.0 %
Sodium Laureth Sulfate (28 %)	40.0 %
<b>Phase B</b>	
Parfume	0.3 %
Zinc Pyrithione (48 %)	2.0 %
ABIL® B 88183 (PEG/PPG-20/6 Dimethicone)	0.5 %
<b>Phase C</b>	
Water	40.3 %
TEGO® Carbomer 141 (Carbomer)	0.2 %
NaOH (25 %) ad pH ≈ 5	0.1 %
<b>Phase D</b>	
TEGO® Betain F 50 (Cocamidopropyl Betaine)	10.0 %
ANTIL® HS 60 (Cocamidopropyl Betaine; Glyceryl Laurate)	3.7 %
<b>Preparation:</b>	
<ol style="list-style-type: none"> <li>The ingredients are heated up to app. 65 °C until the TEGIN® G 1100 Pellets is melted. Cool down while stirring until app. 45 °C.</li> <li>Add the ingredients in the given order to phase A.</li> <li>The TEGO® Carbomer 141 is soluted in the water. Then the solution is neutralised with the NaOH. Add to phases A + B.</li> <li>Add the ingredients in the given order.</li> </ol>	

D 07/02

This information and all further technical advice is based on our present knowledge and experience. However, it implies no liability or other legal responsibility on our part, including with regard to existing third party intellectual property rights, especially patent rights. In particular, no warranty, whether express or implied, or guarantee of product properties in the legal sense is intended or implied. We reserve the right to make any changes according to technological progress or further developments.

The customer is not released from the obligation to conduct careful inspection and testing of incoming goods. Performance of the product described herein should be verified by testing, which should be carried out only by qualified experts in the sole responsibility of a customer. Reference to trade names used by other companies is neither a recommendation, nor does it imply that similar products could not be used.  
(Status: April, 2008)