

INDUCOS 14-SERIES/PE-LD

POLYETHYLENE GRANULATES OF DIFFERENT GRANULE SIZES FOR CLEANSING PREPARATIONS SUCH AS EXFOLIATING/SCRUB FORMULATIONS

Description LD-Polyethylene granulates of different granule sizes. The following standard types are available:

Designation	Color	Grain Size	Density
14/1	white	100-400 µm	0.92 g/cm ³
14/2	white	100-700 µm	0.92 g/cm ³
14/3 Blue	blue	0-315 µm	0.92 g/cm ³
14/5 Green	green	0-315 µm	0.92 g/cm ³
14/6	white	0-315 µm	0.92 g/cm ³
14/7 Orange	orange	0-315 µm	0.92 g/cm ³
14/8	white	400-800 µm	0.92 g/cm ³

Analytical data See specifications.

Solubility Insoluble in water and in nearly all cosmetic emollients and solvents; resistant to high and low pH-values and salts

Properties / Application Inducos 14 synthetic granulates are used as abrasive ingredients for cosmetic cleansing preparations such as exfoliating/scrub creams, lotions, shower gels, etc.
A special technique of grinding, giving not round shaped particles, but irregular shapes with angles and ridges, provides good exfoliating properties. On the other side, the polyethylene material is soft enough to prevent scratches or lesions on the skin. The combination of the unique particles shape and the softness of the material gives the good but mild exfoliating properties.
Polyethylene is a completely inert and chemically stable material. It can be used in cosmetic formulations in all countries worldwide without any restrictions. Furthermore, polyethylene is also approved as material for food devices and for human surgery. Also the textile industry uses polyethylene for clothing accessories, for non-iron finishing and other applications. All this shows that polyethylene is not only well tolerated by the skin, but also by the internal organs of the human body.

Storage 0°C - 25°C (see safety data sheet)

Shelf life 5 years (see specification)

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Advice To guarantee the homogenous distribution of particle size, we recommend shaking the containers well before use.

Remark It was observed that small amounts of threads or filaments of polyethylene materials were intermixed with the correctly grinded material. This mainly happened with granulates of larger sizes (e.g. Inducos 14/8). The reason is that in spite of an improved sieving process, those filaments which are formed during the grinding process may pass through the sieves and end up in the final product. We made a lot of efforts to avoid those admixing, but we can not completely exclude this. To eliminate those intermixtures we recommend passing the bulk of the finished product through a sieve with suitable mesh size.

Identification

INCI Monograph ID	INCI Name	Chinese Name	CAS No.
2407	Polyethylene	聚乙烯	9002-88-4

Type	INCI Name / Chinese Name	CAS No.
14/1, 14/2, 14/6, 14/8	Polyethylene / 聚乙烯	9002-88-4
14/3 Blue 646	Polyethylene / 聚乙烯 CI 42090 (US: Blue 1 Lake) / CI 42090	9002-88-4 68921-42-6
14/5 Green 6891	Polyethylene / 聚乙烯 CI 77289 (US: Chromium Hydroxide Green)	9002-88-4 12001-99-9
14/7 Orange 6916 6895 6896	Polyethylene / 聚乙烯 CI 19140 (US: Yellow 5 Lake) / CI 19140 CI 77491 (US: Iron Oxides) / CI 77491 CI 77492 (US: Iron Oxides) / CI 77492	9002-88-4 12225-21-7 1309-37-1 1345-27-3

Our indications and recommendations have been worked out to the best of our knowledge and conscience, but without any obligation from our part. In particular, we do not take any responsibility concerning protection rights of a third party.