

## Technical Information

## ACCUREL® Si 803

ACCUREL® Si 803 is a mixture of a modified ultra-high molecular weight polysiloxane with high density polyethylene (HDPE).

The viscosity of the polysiloxane typically is in the range of 10 – 16 million cSt, the molecular weight is at 330 kg/mol.

## Physical Properties

Melt temperature	approx. 110 °C
Bulk density	500 – 600 kg/m <sup>3</sup>
Colour	White/off-white
Delivery form	Pellets
Additive Content	50 (± 2) wt%

## Application

ACCUREL® Si 803 acts as a permanent lubricant and slip agent for instance for HDPE pipes.

Compared with silicone oil based masterbatches, ACCUREL® Si 803 provides less screw slippage during processing, better release, low COF and less printing problems.

## Benefits

- non-migrating
- COF reduction
- improved surface gloss and abrasion resistance
- less issues with printing compared low viscosity silicone oils

## Dosage

ACCUREL® Si 803 can be incorporated using gravimetric or volumetric dosing equipment or by pre-blending with the base resin.

The recommended level of addition for ACCUREL® Si 803 is in the range of 1.0 % to 2.0 %.

## Food Contact Status

ACCUREL Si 803 complies to the German BfR XV recommendation "Silicones", the French Arrêté of 25 Novembre 1992, the Spanish Real Decreto 847/2011 and the Council of Europe resolution "Silicones used for food contact applications version 1 10-6-2004".

## Registration

ACCUREL® Si 803 complies with REACH Regulation (EC) No 1907/2006.

The ingredients of ACCUREL® Si 803 are listed/comply with the following chemical inventories:

EINECS, TSCA, DSL, ENCS, AICS, TCCL, PICCS, IECS, NZIOC, TCSI

## Storage Stability

Minimum 12 months after date of production under normal good storing conditions.

## Packaging

30 kg net in a cardboard box with PE inliner  
720 kg net (24 x 30 kg)

## Product Safety

For transport, handling and first aid instructions we refer to the material safety data sheet for ACCUREL® Si 803.

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