

SILICONE GLYCOLS

Description

Basildon Chemicals' Silicone Glycols are a combination of polydimethylsiloxane with polyoxyalkylene materials. They are also known as Silicone Polyethers or Dimethicone Copolyols. This combination gives properties which are unique to this type of material.

Product Features

1. Aqueous and non-aqueous surface tensions of organo-modified silicones are lower than conventional organic surfactants.
2. Readily soluble in cool water and most common solvents, also compatible with many organic resin systems.
3. Silicone glycols antistatic qualities will dissipate static charge.
4. Silicone glycols provide lubrication and slip properties to a number of substrates due to their low coefficient of friction.
5. Economical as an additive with very low additions (0.1% to 1.0%) required.

Typical Properties

These values are not intended for use in preparing specifications (see table).

Method of Use

The amount required depends on the applications. When they are used as coating additives the key is to avoid using excessive amounts. The products can be diluted with water and solvents. They should be added to cold water only as they are insoluble in hot water.

Applications

The addition of low concentrations of these Silicone Glycols will significantly increase the wetting, spreading and levelling characteristics of many formulations. The types of products that can be improved from the addition of Silicone Glycols include the following:

Textile finishes
Cosmetics and toiletries (BC 404)
Coatings (Paints & inks etc.)
Lubricants
Release agents
Antifoams

Toxicity and Handling

These Silicone Glycols are basically non-hazardous with a very low order of toxicity, although contact with the skin or contact with the eyes may cause irritation. See our Health and Safety sheet for more information.

Storage and Shelf Life

These products should be stored below 35°C and not allowed to freeze. Shelf life of the unopened container is 12 months from date of manufacture. If you wish to use the product after this time please contact us for approval.

Technical Service

Our technical and sales staff have considerable experience of the use of silicone products in a very wide variety of industries and the benefit of this experience is freely available to all our customers.

Basildon Chemical Company Limited

Kimber Road, Abingdon, Oxon, OX14 1RZ

Telephone: **44 (1235)526677**

Facsimile: 44 (1235)524334

E-Mail: Sales@baschem.co.uk

Web-Site: www.baschem.co.uk

Typical Properties

	BC403	BC404
Specific gravity (25°C)	1.03	1.06
Colour:	Clear amber liquid	Clear amber liquid
Viscosity:	1100cS	350cS
Shelf life:	24 months	24 months
CFTA/INCI designation:	n/a	PEG-8 Dimethicone

Although every effort has been made to ensure that the information contained in this data sheet is reliable, we cannot be held responsible for the correctness of the information or for any loss, injury or damage which may result from its use. Also suggestions of uses should not be taken as inducements to infringe any particular patent.

Data Sheet MI03 (Edition September 1999)