

# BC 380E Silicone Compound

## Description

Basildon Chemicals Silicone Compound BC 380E combines the unique properties of silicone fluids with a degree of structure. It is normal for products of this type to lose some viscosity when they are subjected to shear. They will regain viscosity/structure with time. BC silicone compounds are used in a great variety of applications where there is a requirement for lubrication, protection from dust, moisture or chemicals, sealing, or corrosion protection. They have a wide operating temperature range of -40°C to 200°C, low volatility, and have a very low order of toxicity. They do not degrade or swell rubber and plastics and are useful lubricants for these materials.

## BC380E Silicone Lubricating Compound

This material is recommended for use as a lubricant in valve and pump packings where its chemical and temperature stability ensures good performance and long lasting effect. It is also useful for lubrication of moving parts in process instruments which are used over a wide range of temperatures. In the laboratory this material is a good sealant and lubricant for ground glass joints and stopcocks under high vacuum conditions. BC 380E has good dielectric insulation properties which are of use in the electrical and electronic industries. BC 380E is produced from F&DA approved materials.

## Storage and Shelf Life

The product should be stored below 32°C. Shelf life of the unopened container is 12 months from date of manufacture.

## Electrical Properties of BC 380E

Colour	Translucent White
Penetration (Unworked)	200-260mn/10
Penetration (Worked)	270 maximum
Flash Point	>300°C
Density	0.98
Temperature Range	-40 to 200°C
Electric Strength (IEC 243-1)	15.4kV/mm
Volume (IEC3)	1.4 x 10 <sup>17</sup> ohm/mm
Dielectric Loss TEC 250	at 1 kHz 0.0018 at 1 MHz 0.0022
Permittivity BS 2067	at 1kHz 2.80 at 1MHz 2.84
Bleed	24hrs/100°C %w/w max 3.49
Evaporation	24hrs/100°C %w/w max 0.57

If you wish to use the product after this time please contact us for approval.

## Typical Properties

	BC380E
Appearance:	Soft, tacky translucent paste
Specific gravity:	1.0
Flash point:	>300°C

## Packaging

The compound is available in 0.5kg, 5 kg, 25kg and 200kg kegs.

## Toxicity and Handling

This material is non-hazardous with a very low order of toxicity, although prolonged contact with the skin or contact with the eyes may cause some irritation. See our Health and Safety sheet for more information.

## 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.

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