

SILICONE COMPOUNDS

Description

Basildon Chemicals Silicone Compounds combine 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. These useful materials 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.

BC360 Silicone Release Compound

This material is a mobile silicone release agent which may be used in a wide range of release and lubricating applications in the plastics and rubber industries. It can be used neat or diluted with solvent.

BC361 Silicone Release Compound

This material is an excellent release agent and can be used for epoxy and polyester castings and as a conditioning material for mould surfaces. It is a good lubricant for rubber and plastic components and for combinations of these materials with metals. This latter property makes it useful for lubrication and protection of automotive parts such as brake, steering gear and gear change components. Also for use as a lubricant and seal for rubber 'O' rings particularly in the assembly of PVC pipes used in building and other applications. BC361 is a Water By-Laws approved product and is produced from F&DA approved materials.

BC380S Silicone Compound

This material is based on a high molecular weight silicone fluid, which gives it a rather soft and tacky consistency. It is recommended for use as a lubricant and seal for rubber 'O' rings, for valves and taps, particularly under severe conditions of

temperature and pressure. It has good durability under these conditions without being too stiff and difficult to handle. BC380S is a Water By-Laws approved product and is produced from F&DA approved materials.

Typical Properties

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

Testing of BC361 and BC380S

BC361 and BC380S have been tested in contact with potable water under the United Kingdom Water Fittings Byelaws Scheme (see overleaf).

Packaging

The compounds are available in 0.5kg, 5 kg and 25kg kegs.

Toxicity and Handling

All products are basically 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.

Storage and Shelf Life

The product should be stored below 32°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.

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Typical Properties:

	BC361	BC380S
Appearance:	Soft Translucent Paste	Soft, tacky translucent paste
Specific gravity:	0.98	1.0
Penetration:		
Unworked	280	300
Worked	350	350
Flash point:	>300°C	>300°C

Testing of BC361 and BC380S

BC361 and BC380S have been tested in contact with potable water as follows under the United Kingdom Water Fittings Byelaws Scheme:

Organoleptic and physical tests:

Extraction in tap water for 24 hours produced no detectable odour, slight taste and no effect on colour or turbidity.

Toxic metals tests:

Extraction in demineralised water for 24 hours at room temperature produced an extract in which arsenic, selenium, lead,

cadmium and chromium were not detected. (EC directive 80/778/EC).

Microbiological growth test:

Microbiological growth tests showed that the material did not support the growth of coliform organisms or pseudomonas aeruginosa.

Cytotoxicity test:

Confluent growth of monkey kidney cell line ACTT NO. CCL81 was observed with the first 24 hours extract.

Having been subjected to the above testing, both BC361 and BC380S were included in the water fittings and materials directory for use with potable water.

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.

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