

Metroark Silicone 17 Compound

Characteristics

Metroark Silicone 17 Compound is a versatile silicone release agent having the consistency of petroleum jelly. It is used in the rubber, plastics, plywood and metal fabricating industries.

Metroark Silicone 17 Compound gives a long lasting, easy release and does not break down to form a carbonaceous build-up. It keeps moulds and patterns cleaner, reduces maintenance, minimizes scrap, and improves the appearance of moulded parts.

Metroark Silicone 17 Compound is inert to metals, plastics and most organic materials. As supplies Metroark Silicone 17 Compound can be wiped on moulds or platens, or dispersed in certain solvents and applied by spraying, swabbing or brushing. Suitable solvents include xylene, mineral spirits, perchloroethylene, and methyl ethyl ketone.

Metroark Silicone 17 Compound is insoluble in water, methyl or ethyl alcohol, glycerol or mineral oil

Typical Properties

Colour	Light grey,
	translucent
Consistency	Petroleum jelly
Specific gravity at 25°C	1.0
Flash Point minimum	315°C
Bleed %, 24 hours at 200°C	10
Volatility, %, 24 hours at 200°C less than	5

Packing

Metroark Silicone 17 Compound is available in 200 gm, 1 kg, 5 Kg jar.

Applications

1. In Rubber Industry

Metroark Silicone 17 Compound is used as a mould release agent for difficult release jobs. An example is its use in making battery cases from 98% reclaim stock. Spraying the moulds with a 3% dispersion of Metroark Silicone 17 Compound in perchloroethylene gives consistently clean, easy release and the moulds stay cleaner longer.

Metroark Silicone 17 Compound is an excellent lubricant and preservative for rubber wiped with this grease-like silicone, tight-fitting rubber parts slide into place quickly and easily.

2. In Plastic Industry

Metroark Silicone 17 Compound is used as a release agent for epoxy, polystyrene, polyvinyl chloride, polyester resins and other plastic materials. On polished dies for embossing vinyl sheeting, one application lasts for as many as 100 to 150 embossing. Applied to calendar rolls, it prevents sticking and gives a very desirable finish to vinylcoated upholstery fabrics. Other applications range from epoxycast electrical coils to polyester luggage. In low-pressure laminating of phenolic and styrene copolymers, the use of Metroark Silicone 17 Compound eliminates the need of cellophane barrier sheet and prevents build-up of excess resin.

Applications

Methods of application vary. In some cases, Metroark Silicone 17 Compound is simply rubbed on the mould surface. In applications involving complex moulds, Metroark Silicone 17 Compound is dispersed in solvents and sprayed on the mould surface. Methods of applications, concentrations and frequency of application are best determined by actual trials. Where such dispersion is desired, a 5% concentration of Metroark Silicone 17 Compound in solvent is suggested.

3. In Plywood Industry

Metroark Silicone 17 Compound is widely used throughout the plywood and hard-board industry as a release agent and for preventing glue from fouling machinery. It is applied as received or from a solvent dispersion to such equipment parts as saw blades, speicer heating bands, edge gluer chains, heating bars, cauls and platen sleeves.

Application of Metroark Silicone 17 Compound prevents the adhesion of glue to press platens and loaders for periods up to six months of continuous production. It facilitates removal of the finished panels, reduces maintenance of the platens and loaders, and minimizes to the panel surfaces caused by build-up of hardened glue.

4. In Metal Industry

Metroark Silicone 17 Compound is recommended in the shell moulding process for breaking in new or freshly cleaned patterns.

Zinc producers use Metroark Silicone 17 Compound on moulds for plates and other castings. They obtain easy release, good surface finish and reduced build-up on moulds. A 5% dispersion of Metroark Silicone 17 Compound in kerosene may be sprayed on moulds. One application is sufficient for 15 to 17 castings.

Metroark Silicone 17 Compound is an excellent release agent in chill casting of brass.

In those applications where Metroark Silicone 17 Compound is applied to metal surfaces or dies or moulds, optimum effectiveness has been obtained by buffing or burnishing the compound on to the metal surface.

5. In other Industry

In the clay tile industry, Metroark Silicone 17 Compound is used as a release agent in forming integral seals for clay tile. The seals are made from vinyl plastisols and asphalt.

These figures are intended as a guide and should not be used in preparing specifications.

Silicone laboratory samples (SLM) are development products. Therefore, we cannot at present give any binding assurance of constant properties or of continuous supplies in future."

The data presented in this leaflet are in accordance with the present state of our knowledge, but do not absolve the user from carefully checking all supplies immediately on receipt. We reserve the right to alter product constants within the scope of technical progress or new developments. The recommendations made in this leaflet should be checked by preliminary trials because of conditions during processing over which we have no control, especially where other companies' raw materials are also being used. The recommendations do not absolve the user from the obligation of investigating the possibility of infringement of third parties' rights and, if necessary, clarifying the position. Recommendations for use do not constitute a warranty, either express or implied, of the fitness or suitability of the product for a particular purpose.

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