

WACKER[®] E 22

Silicone Fluid Emulsion

Characteristics

WACKER[®] E 22 is an O/W emulsion of a polydimethylsiloxane dispersed in water. It is readily incorporated into cold-stirred formulations.

Application

WACKER[®] E 22 is a special, finely dispersed formulation of a high viscous dimethylpolysiloxane in water. The emulsion is extremely stable, so that even highly diluted ready-to-use solutions are indifferent to shear forces. Its wetting and spreading properties are excellent. Thus, also in case of using low ready-to-use concentrations there will be an even and smooth film.

The active ingredient - dimethylpolysiloxane- exhibits very high release properties and is resistant to mechanical stress.

- general-purpose release agent for rubber vulcanization.
- ironing aid in aerosol formulations of starch.
- additive to the remoistening water in offsetprinting
- release agent for foundries (hot box method)

Processing

Generally, WACKER[®] E 22 is diluted with water to a solid content of 0.5 to 5%. That means, between 80 and 8 parts of water are added to 1 part WACKER[®] E 22. The diluted emulsion can be applied by dipping, brushing or spraying. The spraying application with the usual pneumatic spray equipment is preferred, as this is the most economical method to get an even release agent film.

Additional information

Silicone fluid emulsions should be homogenized before use, since a concentration gradient may occasionally form if they are left to stand for long periods.

Storage

WACKER[®] E 22 has a shelf life of at least 6 months when stored between 5°C and 30°C in the tightly closed original container. The 'Best use before end' date of each batch appears on the product label.

Storage beyond the date specified on the label does not necessarily mean that the product is no longer usable. In this case however, the properties required for the intended use must be checked for quality assurance reasons.

Safety information

Detailed safety information is contained in each material safety data sheet, which can be obtained from our sales offices.

Product data

Property	Test-method	unit	result
Appearance			milky
Emulsifying system			anionic
Type of emulsion			oil in water
Density	DIN 51757	[g/cm ³]	approx. 1
pH-value			7.5 – 8.5
Non volatile content		[%]	41 – 44
Particle size max.		[nm]	150

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

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 products for a particular purpose.

The management system has been certified according to DIN EN ISO 9001 and DIN EN ISO 14001

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