



## TECHNICAL BULLETIN

### TAYCHEM ESL-360

A Dimethyl Emulsion

#### Description:

TayChem ESL-360 is a carefully-formulated, sixty percent (60%) solids emulsion of 350-centistoke, dimethyl silicone fluid. It is designed for use as a textile additive or mold release agent, as well as for use in other specialty applications.

#### Applications:

1.	Mold release agent for technical rubber, tires, plastics, and foundry products.
2.	Automotive after-market.
3.	Water repellent and release agent for industrial glassware.
4.	Additive in maintenance products, floor and furniture polishes, product for leather maintenance.
5.	Sizing agent for synthetic fibers.
6.	Release agent in textile finishing formulations.

#### Typical Properties:

Property	Characteristic
Appearance	Milky- White Liquid
Solids Content; Microwave Oven (%)	Ca. 60
pH Value	Ca. 8.0
Ionic Character	Nonionic
Note: These figures are intended as a guide and should not be used in preparing specifications.	

After drying, TayChem ESL-360 film imparts the following valuable properties:

1.	Excellent heat stability.
2.	Chemical inertness.
3.	Good water repellency.
4.	Excellent lubricating properties.

#### Uses:

When using TayChem ESL-360 as an industrial mold release agent, it is generally used diluted in concentrations of 0.2% to 1.2% active ingredients. Dilutions are obtained by incorporating one liter of ESL-360 to 50 to 250 liters of water under moderate mechanical stirring. The reverse procedure {addition of water to the emulsion} is not recommended. The diluted material must be applied to clean molds by spraying, brushing, or wiping with a pad. Dilutions down to 20% active ingredients are stable during prolonged periods of storage {two to four weeks}. Less active dilutions may stratify upon standing. Uniformity may be obtained with slight mechanical agitation.

TayChem Industries, Ltd.  
3060 Pharr Court North, N.W.  
Suite No. 11  
Atlanta, Georgia 30305-2054

Toll-Free Telephone No. (866) 794-0004  
Local Telephone No. (404) 264-0004  
Facsimile No. (404) 264-1816  
E-Mail Address: [taychemind@aol.com](mailto:taychemind@aol.com)



**Storage Stability:**

TayChem ESL-360 has a shelf life of at least six months if stored in its original, sealed container at 15°C or 35° F. If the material is kept beyond the recommended shelf life, it is not necessarily unusable, but quality control should be performed on the properties relevant to the application.

Emulsions showing signs of creaming should be agitated before use to assure uniform consistency.

**Safety Instructions:**

Comprehensive instructions are given in the corresponding Material Safety Data Sheet. This information is available upon request from TayChem Industries, Ltd.

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