



DuPont Performance Chemicals

Zonyl®

fluorosurfactant

Description

Zonyl® fluorosurfactants are fluorinated solids/waxes that can lower the surface tension of a substrate beyond what a conventional hydrocarbon surfactant can do. There are 15 grades of Zonyl® fluorosurfactants (FSN, FSN-100, FSO, FSO-100, FSP, FSE, FSJ, FSA, FTS, TBS, UR, FS-300, and FS-62). Within the 15 grades, there are anionics, cationics, and nonionics. They are sold as waxy pastes or water-soluble solutions.

Recommended Major Industrial Uses

- Coatings—Lowers surface tension. Improved leveling, gloss.
- Hard Surface Cleaners—Can be used in cleaners for glass, tile, formica, toilet bowls, etc.
- Carpet Shampoo—Leaves behind a fluorinated residue that aids in reducing resoiling.
- Plastics—Can migrate to the surface and lower the surface energy of the substrate.
- Corrosion Inhibitors—Can be used on metals.

Features and Benefits

Because Zonyl® fluorosurfactants . . .

have a fluorinated tail

are very effective at lowering surface energies

are surfactants

They can . . .

- lower the surface tension of liquids such as coatings, floor waxes, etc.
- are effective in solvent formulations.
- increase leveling and gloss.
- decrease soiling/staining.
- be used at concentrations 1/5 or less of conventional hydrocarbon surfactants, often effective at ranges of 0.01 to 0.1%.
- behave like conventional surfactants (dispersing, emulsifying).

Questions and Answers

Possible Objections

Do I have to worry about ozone depletion?

Suggested Answers

No. Zonyl® fluorosurfactants are not chlorofluorocarbons. In addition, Zonyl® fluorosurfactants are solids, nonvolatile, and can't hurt the ozone.

Zonyl® is a registered trademark of DuPont.

Questions and Answers

Possible Objections

Zonyl® fluorosurfactants are too expensive.

Suggested Answers

In most cases, you use much less Zonyl® fluorosurfactant than hydrocarbon surfactant, and properties are enhanced. Zonyl® fluorosurfactants are actually cost-effective.

Personal Safety, First Aid, and Storage and Handling

See the Material Safety Data Sheet (MSDS) for product-specific information.

Technical Assistance

For help in selecting or evaluating these products for your application, please call DuPont's Technical Service experts at (800) 255-4596. In Canada, call (800) 263-5924, or E-mail us at Zonyl@usa.dupont.com.

Ordering Information—Product, Literature, or Samples

To order DuPont Zonyl® fluorosurfactants, additional literature, or a product sample, call DuPont Performance Chemicals Telecontact Center at (800) 441-9140. For locations outside the United States, contact the local DuPont representative in your country.

LITERATURE
REF NUMBER



ALFA CHEMICALS LIMITED

Arc House, Terrace Road South, Binfield, Berkshire RG42 4PZ
Telephone (01344) 397751 Facsimile (01344) 451400

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