



## APPLICATIONS GUIDE

### POLYDIMETHYSILOXANE FLUIDS:

TBF8-(300 - 1,000)	100% PDMS fluid	Food Grade Additive for Non-Aqueous Systems (Cooking Oils etc.)
TBF9-(0.65 – 1,000,000 cSt)	100% PDMS fluid	For manufacturing antifoam compounds. Personal care products. Leather/textile/paint formulations. Non-aqueous system defoamers. (petroleum processing, etc.). Mold release. Polishes.
TBF8-250	100% PDMS fluid	Medical devices.
TBF9-(XXX)NF	100% PDMS fluid	USP – Pharmaceutical Grade (dimethicone).
TBF7-50	100% PDMS fluid	Dielectric fluid. Transformers.

### REACTIVE SILICONE FLUIDS:

TBF-MH	Methyl hydrogen poly-siloxane polymer	Water repellency of textiles. Particle treatment (pigments, fire extinguisher powders). Magnesium oxide and calrod units.
TBF-69	Very low viscosity clear silicone fluid	Paint additive for flow control and pigment dispersing aid. Imparts mar resistance and gloss. Increases wettability of spray coatings.
TBF-702	Curable aminofunctional silicone fluid	Cures to a tough elastomeric film. Auto-polish additive.
TBF-703	Curable aminofunctional silicone fluid	Personal care: (ammodimethicone / silsesquioxane copolymer).
TBF-677	Low viscosity methyl/phenyl polysiloxane oil	Personal care: (phenyl trimethicone). Imparts water repellency & gloss.
TBF4-(XX)	Highly reactive oil	Component for silicone elastomers.
TBF 2(XX)	Methyl vinyl substituted polymer	To produce 2-component addition cure RTV. Pigment dispersions of color-masterbatches for silicone rubber.

### METHYL ALKYL LUBRICATING AND PAINTABLE FLUID:

TBF-1086	Modified 100% silicone fluid	Used in release applications where post coating (painting, anodizing, etc.) is required. Provides brighter finish to aluminum & zinc die castings.
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### ANTIFOAMS: *PATH ANTIFOAMS ARE USDA, FDA, AND KOSHER-PARVE APPROVED*

TBA-111	10% emulsion	General purpose. Food or industrial ( <u>direct</u> food additive)
TBA-111A	10% emulsion	General purpose. Food or industrial ( <u>indirect</u> food additive)
RS-AF20FG	20% emulsion	General purpose - Food or industrial.
RS-AF30	30% emulsion	General purpose – Industrial.

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RS-AF30FG	30% emulsion	General purpose – Food.
RS-900	100% compound	Used to manufacture antifoam emulsions or as a direct food additive. Non-aqueous applications (inks, coatings, petroleum processing).
TBF-194	Copolymer fluid	Hot systems (textiles, pulp, paper).
TBF-195	Copolymer fluid	Cold systems (textiles) jet dye base fluid.
TBA-445A	100% active copolymer compound	Hot & cold systems. Readily rinses free from many substrates.

#### **DIMETHYL EMULSIONS:**

TBM-35060	60% silicone solids of 350 cst. fluid	Printers emulsion mold release, tire & vinyl dressing
TBM-35050	50% silicone solids of 350 cst. fluid	Rubber and plastic release
TBM-10050	50% silicone solids of 100 cst. fluid	Printers emulsion, polish additive
TBM-10M50	50% silicone solids of 10,000 cst. fluid	Personal care (cosmetics). Furniture polishes & cleaners. Release for metal working, rubber & plastic industries.
TBM-100050	50% silicone solids of 1,000 cst. fluid	General purpose emulsion used in many industries
TBM-6000	50% silicone solids of 60,000 cst. fluid	Excellent mold release for metal, plastic & rubber industries.

#### **SPECIALTY EMULSIONS:**

RS 28-FG	35% silicone solids of 350 cst. fluid	Food-Grade Release Emulsion For Molding Plastics or Paper Processing (Indirect food additive).
TBM-551	Silicone copolymer	Polyurethane epoxy releases
TBM-2156A	50% emulsion of tbf-1086(methyl alkyl fluid)	Release for metal/plastic parts requiring painting/metallizing or gluing
TBM-MWR-50	Solvent free silane	Masonry water-repellent treatment. Modified siloxane non-tacky surface finish. Façade protectant against salt, wind-driven rain, etc
TBRM-400	Film-forming 50% active resin solids	High temp. & corrosion resistant paints & coatings.

#### **REACTIVE "FILM FORMING" EMULSIONS;**

TBM-400M	Emulsion Of Extremely High Viscosity fluid	Release Agents for Rubber and plastics processing. slip agent or conditioning agent for shampoos.
RS-2138	60% solids of reactive silicone fluid	Particle treatment. Used to impart water repellency. Heat catalyzed
TBM-150A	60% solids of curable silicone fluid. Anionic emulsion.	Leather treatment. Textile softener. Pigment treatment mold release in industrial. Applications.
TBM-2059	50% solids of reactive, self-curing silicone polymer.	Vinyl and auto polish additive. Textile treatment, particle treatment, air curable release coating. Vapor permeable.
TBM-2,000M	50% solids of very high viscosity fluid – very fine particle size	General purpose release for molded parts . Excellent additive for water- based coatings - improves slip properties.

#### **SILICONE "WATER SOLUBLE" COPOLYMER FLUID:**

TBF-190	Polyether modified	Rubber lube, paint (water soluble below 110°f) additive
TBF-193	Polyether modified	Cosmetic product: (peg 12 dimethicone) (much higher cloud point than tbf-190)
TBF-193A	Polyether modified	Cosmetic product: (peg 9 dimethicone)
TBF-77A	Polyether modified trisiloxane family	Wetting agent in aqueous systems, agricultural formulations, cleaners

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**CYCLIC (Volatile Silicone Fluids):**

TBF-504	Very low molecular weight dimethylsiloxane	Personal care (cyclotetrasiloxane)
TBF-505	Very low molecular weight dimethylsiloxane	Personal care (cyclopentasiloxane)
TBF-506	Very low molecular weight dimethylsiloxane	Personal care (cyclomethicone)
TBF-509	Very low molecular weight dimethylsiloxane	Personal care (cyclomethicone)

**FLUID/GUM BLENDS:**

TBS-1214	Blend of 85% cyclic fluid (d5) & 15% gum	Personal care (cyclopentasiloxane) and (dimethicone). Hair conditioner, skin care.
TBS-1401	Blend of cyclics (d4, d5) & gum	Personal care: (cyclotetrasiloxane) and(cyclopentasiloxane) and (dimethiconol).
TBS-1404	Blend of (d5) cyclic fluid & gum	Personal care: (cyclopentasiloxane) and(dimethiconol). Hair cuticle coating, ap
TBS-1501	Blend of (d5) cyclic fluid & gum	Personal care: (cyclopentasiloxane) and(dimethiconol). Skin care, color cosmetics.
TBS-1503	Blend of gum in a low viscosity fluid	Personal care: (dimethicone & dimethiconol). Skin care and cosmetics.

**NON REACTIVE AMINES**

RS-300	Amino functional modified polymer	Unique textile softener
RS-1200	Higher viscosity amino functional modified polymer	Unique textile softener
RS-1500	100% active silicone fluid	Personal care(trimethylsilylamodimethicone conditioning agent additive in hair care formulation. Improved wet/dry combing substantivity, (easily emulsified)

**SPECIALTY PRODUCTS:**

TBF-410(xxx)	Methyl-phenyl fluid	High/low temp lubricant. Hydraulic/damping fluids
TBF-450	Methyl-phenyl fluid	Heat transfer fluid. Lubricant for high flash point high temperature applications
TBF-677	Low viscosity methyl- phenyl polysiloxane(alcohol soluble)	Personal care (phenyl trimethicone) makeup, hair care, skin care
TBF-7602	Silicone ethylene oxide copolymer	Textile static control & lubricity. Promotes dispersion of powders. Excellent wetting properties.
TBF-7608	Polyalkyl-polyether modified silicone fluid. , non-ionic w in o emulsifier	Personal care: (cetyl peg/ppg 10/1 dimethicone) skin care lotions make-up, antiperspirants, etc.
TBS-104	Methylpolysiloxane in mineral spirints	Masonry water repellent
TBS-105	Silane modified siloxane	Masonry water repellent.
TBS-701	50% solids amine functional fluid in aliphatic hydrocarbons/ isopropyl alcohol.	Paste auto polishes leather treatment..
TBS-4777	90% active solids. Air-curing polymer system. No aromatic solvents	Water repellent for leather & textiles.
TBS-4099	50% silicone in mineral spirints	Provides air-dry water repellency to leather and textiles
TBF-15 (xxx)	Fluorosilicone fluid	Very low temperature applications.
TBR-525	50% silicone resin in xylene	High temp. (ceramic frit) & moisture resistant coatings. Aluminum finishings. Can be cold blended w/organic resins to upgrade performance
TBR-800	80% silicone resin in xylene/methanol	Additive for high temp. Applications
TBE-30	Silicone gum(clear stable polymer)	Personal care
TBE-65	Uncatalyzed methyl vinyl Polysiloxane gum.	Rubber industry

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