



**Charles Ross & Son Company**  
 710 Old Willets Path  
 P.O. Box 12308  
 Hauppauge, New York 11788-4193

# Viscosity and Application Guide

**The World Leader in Mixing and Blending Technology**

	VISCOSITY RANGE	TYPICAL APPLICATIONS
<b>Double Planetary Mixer</b>	10,000 - 8 million cps	Abrasives, Thick Film Inks, Battery Pastes, Solder Pastes, Polyurethanes, Epoxies, Ceramics, Automotive Catalysts, Sheet Molding Compounds, Plastisol, Pharmaceutical Granulations, Urethane Sealants, Rubber Adhesives, Silicones, Hot Melts, Munitions, Household & Agricultural Pesticides, Conductive Inks, Grinding Wheels, Metallic Pastes, Syntactic Foams, Caulking Compounds, Pigment Dispersions in Wax, Metal Cleaning Compounds, Engineered Plastic Resins, Toothpastes & Dental Composites, Animal Health Care Products, Collagen Solutions, Cosmetic and Pharmaceutical Gels, Thermal Greases, Bone Void Filler, Lubricant Pastes, Fumed Silica Dispersions, Brazing Materials, Refractory Materials, Joint Compounds, Fabric Softener, Investment Casting Slurries, Sound Deadener and Other Composites
<b>PowerMix</b>	10,000 - 1 million cps	
<b>Kneader Extruder</b>	Millions of cps	Rubber Compounds, Extremely High-Viscosity Adhesives and Sealants
<b>Multi-Shaft Mixer</b>	10,000 - 500,000 cps	Food Sauces and Flavorings, Syrups, Candy, Salad Dressings, Food Colors, Food-Grade Gels and Greases, Fillings, Cosmetics, Shampoo, Lotions, Creams, Toothpaste, Wax Emulsions, Pharmaceutical Suspensions, Blood Reagents, Ointments, Coatings, Inks, Paints, Hot-Melt Adhesives, Water-based Adhesives, Low-Viscosity Solder Pastes, Battery Slurries, Silica Dispersions, Investment Casting Slurries, Epoxy Encapsulants, Emulsions, Woodworking Glue, Clay Dispersions, Caulking Compounds, RTV Compounds, Metallic Slurries, PVC Solvent Cements, Rubber Solutions



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<b>High Shear Mixer</b>	1 - 20,000 cps	Fortified Milk and Juices, Mayonnaise, Ketchup, Mustard Sauce, Greases, Lubricants, Lotions and Cosmetic Creams, Silicone Emulsions, Leather Tanning Solutions, Modified Asphalt, Synthetic Fuels, Biodiesel, Fumed Silica Dispersions, Carbon Dispersions, Gum Dispersions, Inks, Paints, Coatings, Nanodispersions, Pigment Dispersions, Low-Viscosity Adhesives, Pharmaceutical Syrups and Emulsions, Oral Suspensions, Tire Dressings, PVC Solvent Cements, Other Polymer Blends
<b>High Speed Disperser</b>	1 - 50,000 cps	Inks, Paints, Coatings, Electropastes, Medical Gels, Chemical Slurries, Confectionaries, Polyurethanes, Plastisol, Carbon Dispersions, Carbon Dispersions, Stereolithography Pastes, Textile Colors, Cosmetic and Pharmaceutical Solutions, Ceramic Slurries, Dye Stuffs, Membranes, Resin Cutting, Steel Activators
<b>Three Roll Mill</b>	10,000 - 100,000 cps	Electronic Film inks, High Performance Ceramics, Lipstick and Other Cosmetics, Carbon/Graphite Dispersions, Magnetic Dispersions, Paints, Printing Inks, Pharmaceutical Ointments, Glass Coatings, Dental Composites



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<b>Ribbon Blender</b>	Spices, Frozen Vegetables, Minerals, Food Supplements, Vitamins, Coffee Beans, PVC Plastic, Flour, Cake and Bread Mixes, Sugar, Animal Feeds, Fertilizer, Ceramics, Glass, Chemicals, Metal Powder Blends, Cereal, Cosmetics, Pet Food, Snack Foods, Trail Mix, Tea Blends and Flavors, Plaster Slurries, Vacuum Drying of Powders, Coating of Plastic Pellets with Fragrance or Pigments
<b>Vertical Blender</b>	
<b>Tumble Blender</b>	