



***PERFORMANCE CHEMICALS FOR THE RESOURCE
EXTRACTION AND MINING INDUSTRIES***

- 1. Polymer Flocculants**
- 2. Dewatering Accelerator**
- 3. Cold Flow Improvers**
- 4. Lubricity Improver**
- 5. Dewaxing Aids**

IMPORTANT :

Before handling these products, refer to the current Material Safety Data Sheet for recommended protective equipment, and detailed precautionary and hazards information.

SANYO CHEMICAL PRODUCT OUTLINE

1. Polymer Flocculants

Product Name	Principal Component (Product form)	Uses and Features
SANFLOC AH-200P	Modified polyacrylamide (Powder)	SANFLOC AH-200P is a general purpose anionic product. It is effective for the sedimentation of suspended inorganic solids like minerals. It is particularly effective in alkaline to neutral pH conditions.
SANFLOC AS-510P	Modified polyacrylamide (Powder)	SANFLOC AS-510P is a general purpose product that is low in anionicity. It is effective for the sedimentation of suspended inorganic solids like minerals. It is particularly effective in weakly acidic to weakly alkaline pH conditions.
SANFLOC N-520P	Modified polyacrylamide (Powder)	SANFLOC N-520P is a general purpose nonionic product. It is effective for the sedimentation of suspended inorganic solids like minerals. It is particularly effective in acidic to neutral pH conditions.
SANFLOC C-009P	Quaternary ammonium salt type acrylic polymer (Powder)	SANFLOC C-009P is a general purpose cationic product. It is effective in promoting filtration, dewatering and thickening of organic sludges.

2. Dewatering Accelerator

Product Name	Principal Component (Product form)	Uses and Features
SERABON DH-707	Anionic surfactant (Liquid)	SERABON DH-707 is a dewatering accelerator for wet mineral concentrates, ores, or solids. It is particularly effective in the dewatering of water-slurry of sulfide or oxide ores of copper, zinc, lead and iron. It is effective in cutting handling and fuel costs.

3. Cold Flow Improvers

Product Name	Principal Component (Product form)	Uses and Features
CARRYOL KA-241	Modified ethylene copolymer (Liquid)	CARRYOL KA-241 is a cold flow improver for diesel fuels and heating oils, particularly at low temperatures. In addition to pour point depression, it excels in CFPP* depression for oils with light and medium distillates.
CARRYOL A-914	Blended modified ethylene copolymer (Paste)	CARRYOL A-914 is a cold flow improver for heating oils. In addition to pour point depression, it excels in CFPP* depression for oils with medium and heavy distillates.

* Cold Filter Plugging Point

4. Lubricity Improver

Product Name	Principal Component (Product form)	Uses and Features
SANFRIC FM-6	Fatty acid (Liquid)	SANFRIC FM-6 is a lubricity improver for diesel fuels when used in small amounts, reduces friction of metals and prevents metals from wear in a fuel injection pump.

5. Dewaxing Aids

Product Name	Principal Component (Product form)	Uses and Features
SANDEWAX DW-11	Polymer of higher alkyl acrylate (Solid)	SANDEWAX DW-11 is dewaxing aid for the production process of lubricating oils. It is particularly useful in the MEK dewaxing process. It remarkably increases the filtering rate.
SANDEWAX DW-12	Polymer of higher alkyl acrylate (Solid)	SANDEWAX DW-12 is dewaxing aid for the production process of lubricating oils. It is particularly useful in the MEK dewaxing process of fuel oils. It remarkably increases the filtering rate.
ACLUBE 133	Polymer of higher alkyl methacrylate (Liquid)	ACLUBE 133 is dewaxing aid for the production process of lubricating oils. It is particularly useful in the propane dewaxing process. It remarkably increases the filtering rate.

PRODUCT LIST

1 PERFORMANCE CHEMICALS FOR SYNTHETIC RESIN & RUBBER INDUSTRIES AND PAINT, INK & PIGMENT INDUSTRIES

1. Emulsifiers for Emulsion Polymerization
2. Pigment Dispersants (Oligomer Type)
3. Resin Modifiers
4. Antistatic Agents
5. Mold Releasing Agents
6. Printing Ink Binders
7. Compounding Ingredients for Paints and Printing Inks
8. Pigment Dispersants (Surfactant Type)
9. Defoaming Agents
10. Plasticizers for Polyurethane-Based Sealants

2 PERFORMANCE CHEMICALS FOR COSMETICS, PHARMACEUTICALS, AGRICHEMICALS AND DETERGENTS

Performance Chemicals for Cosmetics

1. Base Materials for Shampoos (Anionic Type)
2. Base Materials for Shampoos (Amphoteric Type)
3. Foam Stabilizers and Thickeners for Shampoos
4. Base Materials for Body Washes
5. Base Materials for Hair Conditioners
6. Compounding Ingredients for Cosmetics
7. Emulsifiers for Cosmetics
8. Gelling Agents for Cosmetics

Performance Chemicals for Pharmaceuticals

1. Tablet Binders
2. Base Materials for Ointments

3. Coating Agents for Tablets
4. Germicides (Pharmaceutical Use)
5. Other Products for Pharmaceuticals

Performance Chemicals for Agrichemicals

1. Dispersants for Agrichemical Granule Preparations

Performance Chemicals for Detergents

1. Base Materials for Detergents
2. Germicides (Industrial Use)
3. Additives for Detergents
4. Base Materials for Household Fabric Softeners
5. Industrial Defoaming Agents

3 PERFORMANCE CHEMICALS FOR POLYURETHANE AND POLYURETHANE-RELATED INDUSTRIES

1. Polyether Polyols for Flexible Slabstock Polyurethane Foams
2. Polyether Polyols for Automobile Hot Molded Seat Cushions
3. Polyether Polyols for Automobile High-Resilient Molded Seat Cushions
4. Polyether Polyols for Crushpad Foams
5. Polyether Polyols for Rigid Polyurethane Foams
6. Multi Functional Polyols
7. Example of Polyurethane Foam System
8. Polyether Polyols for CASE
9. Prepolymers and Raw Materials for Polyurethane Elastomers
10. Base Materials for Synthetic Leathers
11. Water-Borne Polyurethanes for Textile Processing
12. Polyurethane Emulsions for Coatings

4 PERFORMANCE CHEMICALS FOR LUBRICANT INDUSTRIES AND MACHINERY & METAL PROCESSING INDUSTRIES

1. Lubricant Additives
2. Base Materials for Polyalkylene Glycol-Type Lubricants
3. Base Materials for Water-Soluble Quenchants
4. Base Materials for Hydraulic Fluids
5. Materials for Brake Fluids
6. Rust Inhibitors
7. Water-Soluble Cutting Fluids
8. Emulsifiers for Metal Working Oils
9. Base Materials for Metal Cleaners

5 PERFORMANCE CHEMICALS FOR RESOURCE EXTRACTION AND MINING INDUSTRIES

1. Polymer Flocculants
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6 PERFORMANCE CHEMICALS FOR WASTEWATER TREATMENT

1. Polymer Flocculants
2. Aminoalkyl Methacrylate Monomers

7 PERFORMANCE CHEMICALS FOR COSMETICS SUCH AS HAIR-CARE, SKIN-CARE AND MAKE-UP

1. Foaming Agents/Detergents/Foam Improvers
2. Emulsifying Agent/Solubilizing Agent/Dispersing Agent
3. Conditioning Agents/Styling Agents
4. Thickeners/Gelling Agents/Film-Forming Agents
5. Moisturizing Agents/Moistening Agents
6. Antibacterial/Anticeptic

8 PERFORMANCE CHEMICALS FOR CONSTRUCTION AND PUBLIC WORKS

1. Flooring Materials
2. Polyurethane for Architectural Paints
3. Water Sealants
4. Waterproofing Agents
5. Concrete Admixtures
6. Dispersant for Manufacturing Cement Boards by Extrusion Molding
7. Foaming Agent for Foam Concrete
8. Agents for Drilling Mud
9. Waste Mud Solidification
10. Polymer Flocculants for Gravel Washing Wastewater Treatment
11. Binder for Ceramics

9 ADHESIVES AND ADHESIVE-RELATED PRODUCTS

1. Pressure-Sensitive Adhesives (Cohesive Agents)
2. Potting Resins for Artificial Kidneys (Hollow-Fiber Type)
3. Resins for Anti-Corrosion Paints for Automobiles
(for Improving Adhesion of Paints to Electrodeposition Steel)
4. Binders for Fiber-Finishing Agents
5. Binders for Fiberglass
6. Curing Agents for Epoxy Resins

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**Sanyo
Chemical**

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