Phenolic Resin PM-170

Product Description & Characteristics:
Phenolic Resin PM-170 is a premium rosin-modified, glycerol-esterified phenolic resin. Functioning as a hard resin binder rather than a substrate. This specific profile ensures rapid dissolution, excellent vehicle flow, and seamless blending with drying oils and alkyds without requiring excessive thermal processing. It is fundamentally designed to impart superior hardness, gloss, and improved through-drying characteristics to offset and letter-press ink varnishes, as well as serving as a robust modifying agent for architectural and industrial coatings.

Technical Specifications:

Property	Value
Type	**Rosin modified Phenolic Resin-Glycerol esterified**
Melting Point (B&R)	**120°C - 130°C**
Acid Value	**Below 20**

Physical Form & Appearance: The resin is supplied as solid resin in pieces. Given PM-170's melting point of 120°C - 130°C, it is also a solid at room temperature, so we can add this structural specification.

Solubility Profile:
Soluble In: Aromatic, aliphatic, and terpene hydrocarbons. It is also fully soluble in esters and higher ketones.

Compatibility Guide: Phenolic Resin PM-170 is easily compatible with a broad range of formulation components, including:
- Non-polymerized varnish oils and stand oils
- Alkyd resins and maleic resins
- Mineral oil vehicles
- Asphalts, pitches, and many natural resins

Applications & End Uses:

Printing Inks: Serves as a high-performance vehicle in offset and letter-press ink varnishes.

Paints & Architectural Coatings: Suitable for formulating the most diverse oil and alkyd varnishes intended for both interior and exterior use.

Industrial & Specialty Coatings: Highly effective in stoving finishes, primers, anti-corrosive paints, and insulating varnishes.

Formulation Enhancements: Utilized extensively for the hardening of alkyds in various chemical formulations.