

# POLYOX™

WATER-SOLUBLE POLYMERS FOR PHARMACEUTICAL APPLICATIONS



Unique Range of Water Soluble Polymers for  
Controlled Release Applications

UNIQUE TOGETHER



Controlled Release Alliance

POLYOX™, water soluble resins, (NF grades) are nonionic poly (ethylene oxide) polymers. They are hydrophilic polymers available in a wide range of molecular weights and are supplied as white, free flowing powders. POLYOX™ offers a history of successful use in extended release applications of osmotic pump technologies, hydrophilic matrices, hot-melt extruded products, gastro-retentive dosage forms and other drug delivery systems.

Rapid hydration, swelling and gelation, along with excellent flow and compressibility make POLYOX™ a useful complement to METHOCEL™ in hydrophilic matrices. Our exclusive HyperStart®, starting formulation service, provides a start-up formulation for matrix tablets, saving you valuable development time.

### Ideal Choice for Use in Extended Release Systems

- Rapid and reproducible hydration and swelling for use in osmotic pump technologies
- Fast hydration and gel formation for use in hydrophilic matrices minimizes burst, providing near zero order release
- Wide range of molecular weights from 100,000 to 7,000,000, offers formulation flexibility
- Excellent flow, compressibility and lubricity for direct compression extended release applications
- Thermoplastic, highly crystalline with low melting temperature for hot melt extrusion and melt granulation

### Regulatory Compliant

- Excellent safety records and history of use in pharmaceutical products
- Meets the requirements of the United States Pharmacopeia (USP) or National Formulary (NF) specifications
- Approved for use in Japan and Europe
- Meets the requirements of Food Chemicals Codex, the International Codex Alimentarius

### Colorcon Expertise and Services Complement POLYOX™ Product Strengths

- Dedicated Formulation Technologies team provides design expertise to meet unique applications
- Local technical support from Colorcon for applications advice, trials, scale-up and troubleshooting
- Polymer chemistry expertise, manufacturing capability and capacity investment from DuPont

Full supporting product and applications literature is available through the Colorcon website.

### Contact your Colorcon representative or call:

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You can also visit our website at  
[www.colorcon.com](http://www.colorcon.com)

## Deliver high-performance products — with Colorcon

Choose Colorcon, leader in pharmaceutical solid oral dose solutions, as a formulation partner in every phase of your product development. Our solution capabilities originate from two main areas of expertise:

### Formulation Technologies:

- Full range of functional excipients
- Technologies for development and production of delayed/enteric release and extended/controlled release tablets and multiparticulates
- HyperStart® service and extensive applications data to provide starting formulations to save you development time and money
- Extensive formulation know-how and technical support to achieve the exact drug release profile desired

### Film Coatings:

- Optimized formulations specifically for your application and regulatory needs including customized colors and color matching
- Innovative products for mechanical integrity, gloss, pearlescence, and environmental protection
- Brand enhancement concepts, consulting and services to build a strong brand image and stand out from the competition

From formulation and tablet design through product differentiation and branding, Colorcon gives you everything you need to deliver high-performance products.

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**DU PONT**

**Colorcon**

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