

Carbospense™ K-700 Water Treatment Polymer Types and Functions

Carbospense K-700 water treatment polymers are deposit control agents sold to water treatment service companies for use as formulation components for water treatment (e.g., cooling, boiler) programs. The Carbospense K-700 polymers are multi-functional anionic polyelectrolytes that disperse particulates (e.g., silt, clay, iron oxide, pigments), and inhibit scale formation (e.g., calcium carbonate, calcium sulfate, calcium oxalate, barium sulfate, calcium phosphate, calcium phosphonate) over a broad pH range, and sequester di- and trivalent cations (e.g., calcium, magnesium, iron, copper, chromium, zinc). Used around the world, Carbospense K-700 polymers have earned a reputation for high quality, consistency, stability, formulating flexibility, high total and active solids, and narrow molecular weight distributions. The Carbospense K-700 polymers include solvent and water polymerized polyacrylates, polymethacrylates, acrylate copolymers, and acrylate terpolymers and their function(s) as deposit control agents are shown in the table below.

Carbospense K-700 Polymer	Chemical Type	Function(s) as Deposit Control Agents
K-732, K-739, K-752, K-759	Solvent polymerized polyacrylates	High performance general purpose dispersants and scale inhibitors
K-702, K-7600N, K-7058, K-7058N, K-7058D, K-7028	Water polymerized polyacrylates	General purpose dispersants and scale inhibitors
K-765 and K-766	Sodium polymethacrylates	General purpose dispersants
K-775	Acrylate copolymer	Control phosphorus-based salts, stabilize metal ions, disperse particulate matter
K-776	Acrylate copolymer	FDA & USDA approved boiler water treatment iron oxide dispersant
K-781, K-797, K-797D, K-798	Acrylate terpolymers	Control phosphorus-based salts, stabilize metal ions, disperse particulate matter
K-XP229	Acrylate copolymer	Inhibits silica polymerization and disperses particulates

For more information, contact Lubrizol or go to the web site noted below.

CK700-WTP-Type-Function (Aug-11)
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