

Carbospense™ K-776 Acrylate Copolymer

Carbospense K-776 acrylate copolymer is a partially neutralized low molecular weight water soluble acrylic copolymer supplied as a water white to amber, clear to slightly hazy, 37% total solids solution in water.

Carbospense K-776 copolymer is a high performance polyelectrolyte with multi-functional properties including sequestration, dispersion, scale inhibition, crystal growth distortion, binding, and plasticizing.

The typical properties for Carbospense K-776 copolymer are as follows:

Form	Water solution
Appearance	Water white to amber, clear to slightly hazy
Total solids (%)	37 (36 to 38)*
Active solids (%)	30.6
pH	4.8 (4.3 to 5.3)*
Viscosity (cP at 25°C)	210 (160 to 260)*
Specific gravity	1.2 (1.1 to 1.3)
Acid number (mg KOH/g dry polymer)**	240 (200 to 280)*

* Specification.

** Measure of free acid present - determined by a potentiometric titration procedure on as-supplied product basis.

Carbospense K-776 copolymer meets FDA Regulation (21CFR) requirements including 173.310^a, 176.170^b and 176.180^b. In addition, the U.S. Department of Agriculture (USDA) has found Carbospense K-776 acrylate copolymer to be chemically acceptable as an ingredient in boiler water treatment formulations for use in federally inspected meat and poultry processing establishments. The CAS Number assigned to the solids component of Carbospense K-776 copolymer is 97953-25-8 (also see notes below) and the other component is water (CASRN 7732-18-5).

^a Total not to exceed 20 ppm active in the boiler feed water.

^b For use only as a scale inhibitor prior to sheet forming in the manufacturing of paper and paperboard and used at a level not to exceed 1.0 kg (2.2 lb) of copolymer per 907 kg (1 ton) of dry paper and paperboard fibers. For purposes of FDA Regulation (21 CFR) 176.170 and 176.180, CASRN 40623-75-4 applies to Carbospense K-776 copolymer.

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