

SODIUM GLUCOHEPTONATE

TEXTILES

The mildness of sodium glucoheptonate (SGH) as a multivalent metal ion sequestrant provides an effective, non-tendering agent for dissolution of metal contaminants which would otherwise reduce dye brilliance. In addition, precipitation of aluminum salts used in waterproofing techniques is eliminated.

Sequestration of iron impurities in kier boiling alkaline scouring and mercerization processes results in an effective protector against iron staining of textiles. Poisonous effluent salts of chromium based dyes are also prevented from precipitating in alkaline solutions.

Adding ammonia to SGH produces ammonium glucoheptonate which is used extensively in printing on cotton or linen with dissolved vat dyes. The AG acts as a latent acid catalyst. Partial decomposition of AG to ammonia gas and dissolved glucoheptonic acid is achieved during the neutral steaming process used in color development. The removal of gaseous ammonia leaves the glucoheptonic acid solution of the proper acidity for color development. This provides printers with a desirable flexibility of pH range for acid-steaming techniques.



Information courtesy of Russtech