



# Hsin Sou Chemical Co., Ltd.

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## AZ - 170

### Chelating and dispersing agent

**AZ-170** is a chelating agent suitable for the wet processing of polyester, cotton and blends in the desizing, scouring, bleaching, dyeing and mercerization of cotton. Its use will increase the efficiency of the processes and, hence, the improvement of the quality of the end products.

#### General properties :

Appearance	:	Light yellow liquid
Composition	:	Derivative of polyacrylic acid
Ionic nature	:	Anionic
pH (1% solution)	:	6.0 +/- 1.0
Solubility	:	Easy to dissolve in cold water

#### Special features :

1. Highly Efficient chelating agent for Cu, Mg, Fe, Zn, Ni, Ca, and other heavy metals.
2. With multi-function. ex. desizing, scouring, bleaching, dyeing and mercerization of cotton.
3. Suitable in acid, alkali and other electrolytes.
4. Excellent dispersing property in the removal of cotton notes (cotton seed hulls) and the prevention of precipitation of extraneous materials

5. Increase brilliancy of dyed fabrics
6. Promotes uniformity of package dyeing; eliminates inside-outside uneven dyeing

Application :

a. DE size --synthetic fiber :

Use 1 ~ 2 g/l of AZ - 170 in the desi zing bath for softening of hard water and to promote the removal of sizing material and other extraneous materials

b. Scouring — — cotton & cellulose :

Use 1 ~ 4 g/l of AZ - 170 in the scouring bath to prevent the formation of metallic complexes formed by hardness of water in the alkaline bath. The amount of AZ - 170 required depends on degree of hardness of water, processing temperature, time and liquor ratio and type of desi zing machine used.

c. Bleaching — — cotton 、 T/C blends :

AZ - 170 can be used in the alkaline bleaching bath where hydrogen peroxide is used. It prevents the catalytic effect of metals such as iron and the formation of silicate spots.

Fabrics treated with AZ - 170 give a soft hand with improved absorbency. Amount required depends on type of process used.

The following is a guide :

Batch bleaching	: 0.5 ~ 1.5 g/l
Semi-continuous bleaching	: 2 ~ 4 g/l
Continuous bleaching	: 2 ~ 6 g/l

d. Dyeing — — cotton 、 T/C blends :

AZ-170 gives excellent tinctorial value on dyes that are sensitive to metals. It is particularly useful for dyeing with disperse, direct, reactive, vat and naphthol dyes

Recommended dosage : 0.4 ~ 1 g/l

e. Mercerization — — cotton fiber :

AZ - 170 is recommended for use in the mercerization bath with caustic soda concentration of 30'Be. It gives the mercerized cotton a brighter and whiter appearance. It helps to emulsify and suspend gums and waxes.

Recommended dosage : 1 ~ 3 g/l

Note: full evaluation is recommended prior to commercial usage.