

# Chartwell B-505.1

## TECHNICAL DATA

## ADHESION PROMOTERS

### GENERAL DESCRIPTION:

A mercapto functional organic adhesion promoter synthesized using a STABILIZED BIMETAL PRE-CURSOR. The product is supplied in ethylene glycol to aid in rapid dispersion and solubilization of the active component in polymer matrices.

### PHYSICAL PROPERTIES:

Physical form	Clear liquid
Color	Pale yellow
Metal content (Total %)	5.2 - 5.9
Complexed organics	9.1 - 9.3
Specific gravity (g/ml)	1.24
pH (2% soln)	4.0
Active matter (wt %)	25.5
Solvent	ethylene glycol
Organofunctionality	mercapto

### APPLICATION:

**(1) Elastomers:** Recommended for mineral-filled (silica, etc.) or carbon black pigmented sulfur cured elastomers at 1.0-2.0 phr to improve physical properties tensile, tear and abrasion resistance.

- **Chartwell B-505.1** also improves vulcanization of all sulfur cured elastomers. Incorporation during compounding improves adhesion of other rubber, metal and synthetic materials to the molded rubber surface.

**(2) Adhesives:** Recommended for epoxy (esp. dicyanamide cured) and urethane adhesives to enhance adhesion to metals, plastics, and elastomers. Increased T-peel strength. Improved resistance to moisture, heat, and corrosive environments.

### PROCEDURE: HIGH SHEAR MIXING NECESSARY IN ALL SOLVENT-BORNE SYSTEMS

It is recommended that evaluation be conducted at both 1.0 and 2.0 phr (parts adhesion promoter on polymer solids). See **Chartwell Use Procedure** bulletin.

Chartwell B-505.1 Data Sheet 10/05

