



Chartwell D-535.1

GENERAL DESCRIPTION: A hydrocarbon functional metal organic adhesion promoter synthesized using a **STABILIZED BIMETAL PRECURSOR**. The product is supplied in dipropylene glycol for solubilization of the active component in polymer matrices.

PHYSICAL PROPERTIES:

Physical form	Clear liquid
Color	pale yellow
Metal content (Total %)	4.3-4.5
Complexed organics	9.9-10.1
Specific gravity (g/ml)	1.12
pH (2% soln)	4.0
Active matter (wt %)	24.0
Solvent	dipropylene glycol
Organofunctionality	hydrocarbon

APPLICATION:

(1) Pigment dispersion: Recommended for dispersion of difficult to disperse pigments, ie phthalo blue/ green, carbon black, etc. Also for all inorganic pigments, conductive pigments, and mineral fillers. Particularly useful for the dispersion of these pigments in solvent-borne coatings and polyolefins.

(2) Thermoplastics: Use of D-535.1 to treat mineral fillers, ie calcium carbonate, mica, silica, clay, etc. Will result in improved physical properties of the compounded polyolefin.

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

(1) Coatings/ Inks: See Bulletin "Use Procedure Recommendations"

(2) Adhesives: 1.0-2.0 phr, post add recommended under agitation

(3) Plastics: 1.0-2.0 phf (parts per hundred filler); recommend pretreat of pigments/ fillers in a Henschel or similar mixer and subsequently compound with resin. For high surface area pigments/ fillers, ie fumed silica, carbon black, phthalo, and similar use 3.0-5.0 phf.

(4) Rubber: 1.0-3.0 phr, add directly onto silica or other filler and compound in a Banbury mixer.