



Ethox

CHEMICALS, LLC

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TECHNICAL BULLETIN

E-SPERSE 100

*Patent
Pending*

PERFORMANCE BENEFITS:

E-SPERSE 100 is an excellent dispersant and will lower the viscosity of many water based pigment dispersions produced from dry pigments or presscake. Decreased dispersion viscosity allows for higher pigment and/or resin loading and leads to lower ink or paint viscosity. Better gloss and transparency will result for some pigments. An example of pigments for which E-Sperse 100 has shown efficacy are Pigment Red 22, Pigment Red 2, Pigment Red 48:2, Pigment Red 48:3, Pigment Red 57:1, Pigment Orange 16, Pigment Red 266, Pigment Yellow 74, Pigment Red 122, Pigment Red 81, Iron Oxide and Lamp Black..

APPLICATION DATA:

When used in a resin containing pigment dispersion, basic formulations should start at 0.75-5.0 % E-Sperse 100 on the weight of the formulation. Alternatively, one can use 2% E-Sperse 100 on the weight of the pigment. For aqueous dispersions without resin, 10-15% on the weight of the pigment is recommended. Optimization is necessary depending upon the pigment used.

TYPICAL PROPERTIES:

Appearance:	Clear to slightly hazy liquid
Ionic Nature:	Anionic
Solubility:	Clear in water
pH (10 % DI Water):	7.0 – 8.0
% Water:	27 – 30
% Activity:	60 minimum

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