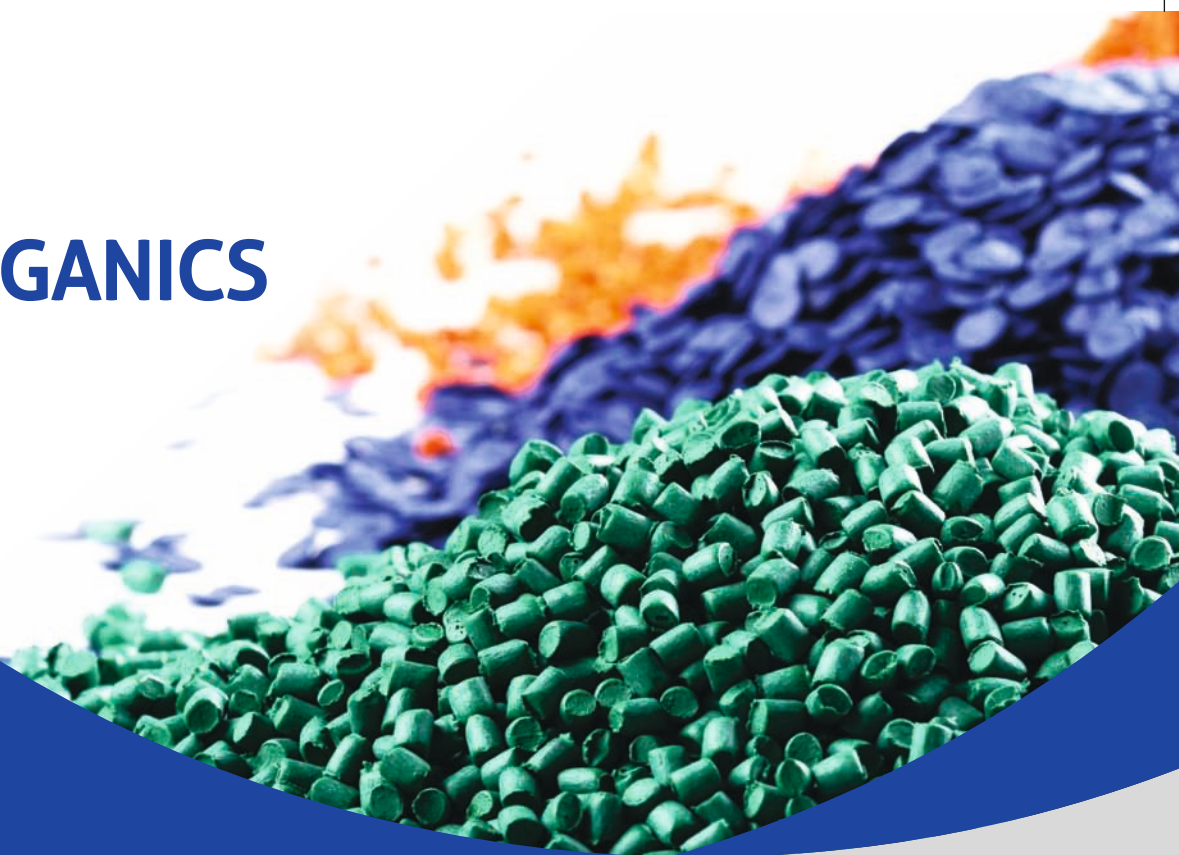




FINE ORGANICS



FinaSperse[®]

Specialty Wetting & Dispersing Additives for Colour masterbatches & compounds

Attaining high quality dispersion in masterbatches is a widespread challenge faced by the Masterbatch producers & Compounding Experts. Therefore, there is a continuous demand for more effective dispersing agents than the conventional ones (non-oxidized PE waxes & metal stearates) in order to achieve desired superior coloristic properties & processing benefits.

FinaSperse is a range of new generation wetting & dispersing additives designed to help in improving dispersion of organic & inorganic pigments in colour masterbatches & compounds. Pigments typically exhibit a tendency to form agglomerates due to prominent '**pigment-pigment**' interactions, which then reflects in an inadequate dispersion in the base polymer. Unique functionalities of FinaSperse additives enable 'wetting' of hard pigment agglomerates through '**Effective Molecular Interactions (EMI)**' resulting in preferred '**pigment-FinaSperse additive**' interactions. It helps in minimizing an extent of pigment particles agglomeration, which post melt-blending process brings about remarkable pigment dispersion quality improvement.

FinaSperse additives can suitably replace the conventional dispersing additives either entirely or partially to offer techno-commercial benefits to the Masterbatch producers & Compounding Experts.

FinaSperse DT 500 N

- Loading: up to 5%*
- Food contact compliance & REACH registered
- Higher colour strength

FinaSperse DT 700

- Loading: from 5 up to 15%*
- Food contact compliance
- Low FPV requirement (For Fiber application)

*Additive use level (%) on the basis of current non-oxidized PE-wax & metal stearate loading & further highly recommended to be optimized suitably



Tel: + 91 (22) 2102 5000 Extn.100

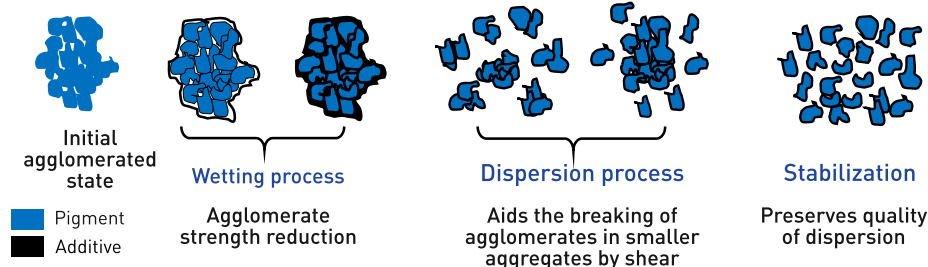
Email: info@fineorganics.com | Web: www.fineorganics.com

Working principle of FinaSpere

- Basis Non-covalent molecular interactions
- Effective 'wetting' is achieved due to the dispersive electromagnetic interactions (EMI) and the pigment dispersion quality is enhanced by weakening the pigment agglomerate strength

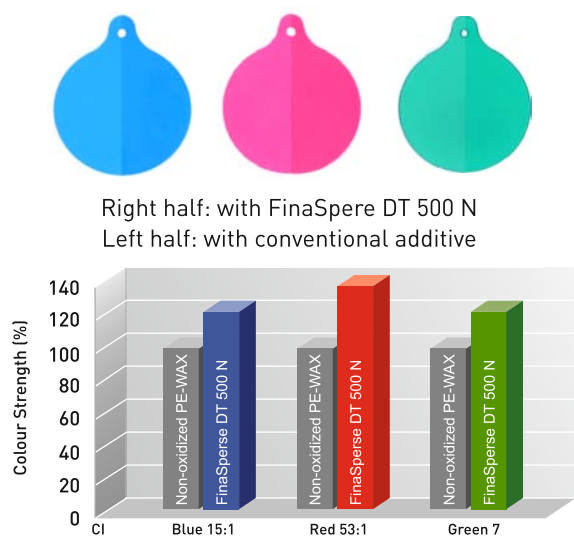
Visual evidence of effective wetting

Schematic: Dispersion process involves wetting, dispersion and distribution of pigment particles



Excellent product performance

FinaSpere DT 500 N



- Higher colour strength: Through superior dispersion quality
- Potential savings: Desired colour strength can be attained with lower loading of pigment
- Quality improvement: Minimum/no specks on films, improved surface texture

FinaSpere DT 700

Properties	PP Wax	FinaSpere DT 700
Yellow Pigment	44%	44%
Loading of additive	10%	10%
FPV, bar/g	3.2	0.04
Color strength	100	104.6

Properties	PP Wax	FinaSpere DT 700
Red oxide pigment	25%	25%
Loading of additive	12.5%	12.5%
FPV, bar/g	10.1	5.4
Color strength	100	110.5

- Effective wetting and dispersion due to suitable chemical features
- Lower FPV value suitable for critical application such as fiber MBs
- Quality improvement: Minimum/no specks on films, improved surface texture

FinaSpere additives can offer excellent technical benefits translating into quality improvements & savings.

For Further technical assistance, Please contact our Technical Services Department | Email : info@fineorganics.com

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