Pigment Dispersant

Pigment Dispersant is a crucial chemical additive in the application of pigments, whose main function is to promote the uniform and stable dispersion of pigment particles in liquid media such as resins, solvents, and water, and prevent them from re aggregating or settling. The following is a detailed explanation about pigment dispersants:

Dispersant **Application**

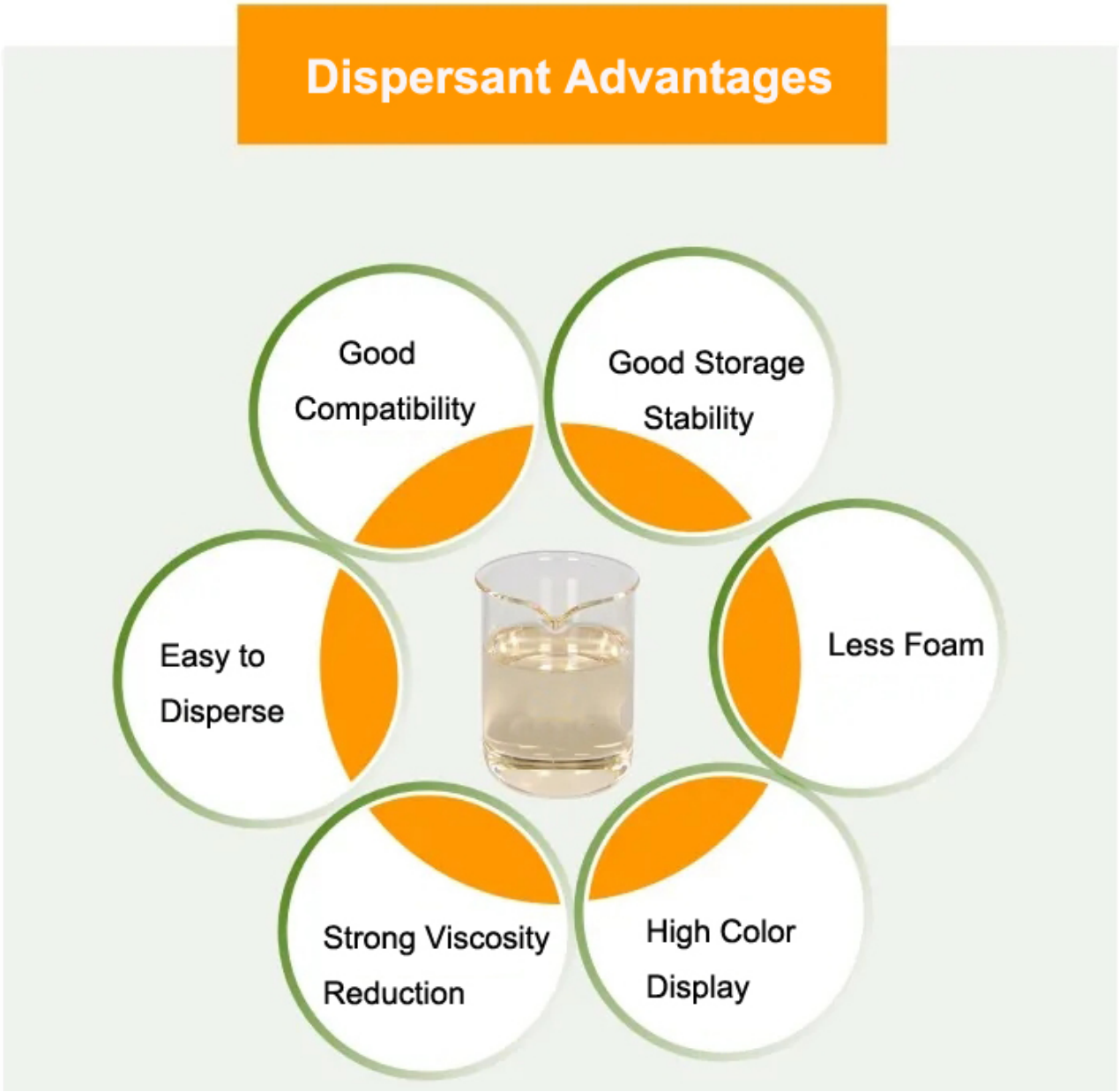
1.Wetting effect
Reduce the surface tension of pigments to facilitate rapid penetration of liquid media into pigment aggregates.
Breaking the air layer between pigment particles (especially crucial for hydrophobic pigments such as carbon black).

Dispersing and stabilizing effect
Electrostatic stability: Ionic dispersants generate repulsive forces on particles with the same charge (applicable to aqueous systems)

Spatial hindrance: Polymer dispersants form polymer chain barriers on the surface of particles (highly versatile)

Electrostatic Space Synergistic Stability: Combining Two Mechanisms (such as Polycarboxylate Dispersants)

Prevent coarsening/flocculation
Preventing the re aggregation caused by van der Waals forces through a continuous energy barrier



Pigment Dispersant Specification

» Product name: Dispersant

» Type: Chemical Agent

» Active Content: 50%

» Appearance: Yellow Transparent solution

» Dosage: Organic pigment 10%-30%

Inorganic pigment 5%-10%

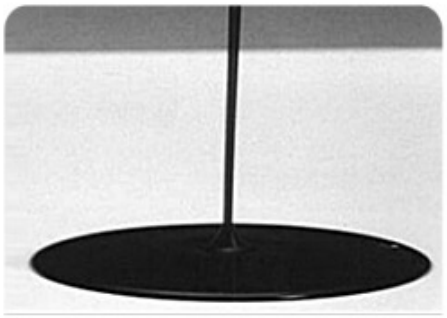
Carbon Black 20%-50%

» Special Properities: Suitable for low polarity system, suitable for most pigment, decrease the viscosity, increase the gross

Dispersing Agent Application

Titanium dioxide, iron oxide, transparent iron oxide, carbon black, inorganic powder, organic pigment

Titanium dioxide



Industrial Color Paste

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Product link：https://www.xcwydyes.com/pigment-dispersant.html