

Dispersant for Organic Pigments in Waterborne Coatings

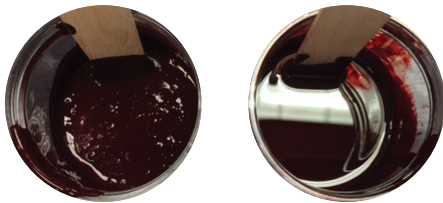


Borchi® Gen 0851

Engineered to maximize the interaction and subsequent wetting of difficult to disperse, high surface area organic pigments

- Shorter grind times
- Low grind viscosity
- High transparency
- Long-term viscosity and color stability

Optimized pigment wetting will produce smaller particle size dispersions with lower viscosity and improved dispersion stability

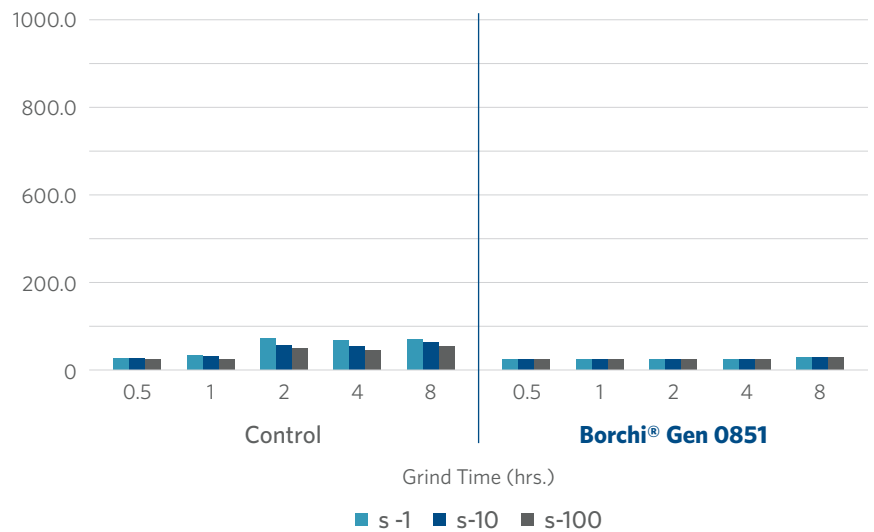


Control

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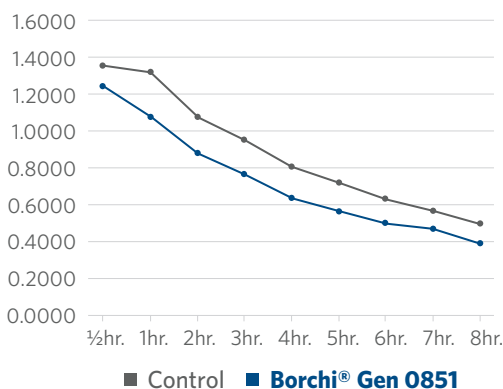
Lower Grind Viscosity

Initial Viscosity σ (cP) Hours



Can Achieve Finer Particle Size Faster

Mean Particle Size (μm) vs Grind Time with PR 179

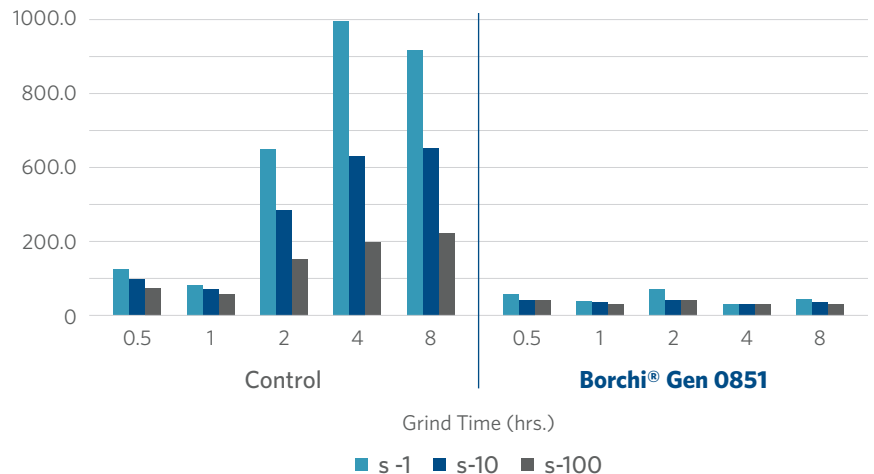


■ Control ■ Borchi® Gen 0851

Particle Size Analyzer HORIBA LA-910

Stable Viscosity Indicates a Quality Dispersion

30% Pigment Concentrate | 1 Month RT - Viscosity σ (cP)



■ s-1 ■ s-10 ■ s-100

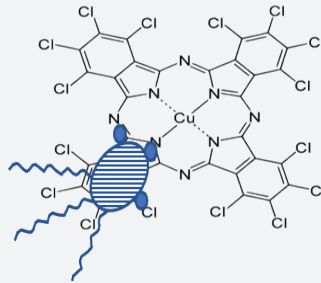
Dispersant for Carbon Black Pigments in Waterborne Coatings

Borchi® Gen 0851

- High jetness
- Low grind viscosity
- Shorter grind times
- Long-term viscosity and color stability

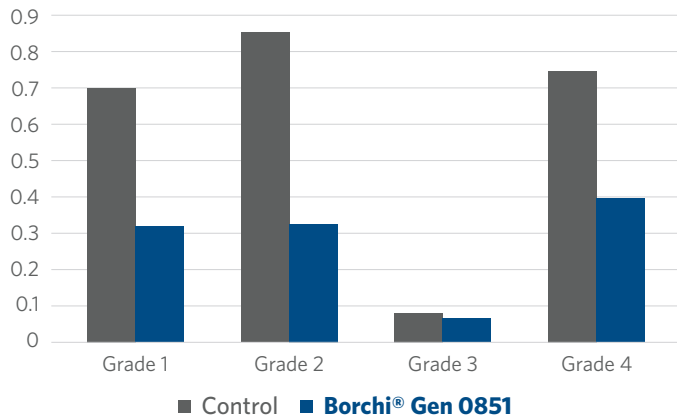
3 Wetting Mechanisms:

- Hydrogen Bonding
- Polarized Groups
- Electron rich body attracted to carbon black and organic pigments surface



Smaller Particle Size

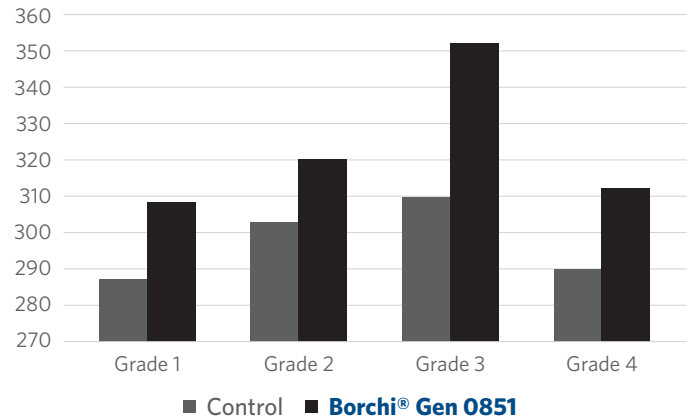
Mean Particle Size (Microns) in 15% Concentrate



	Grade 1	Grade 2	Grade 3	Grade 4
Control	0.7001	0.8543	0.0871	0.7548
Borchi® Gen 0851	0.321	0.3258	0.0756	0.395

Higher Jetness

Jetness (Mc) PBk 7 (2K WB) 3% Pigment



	Grade 1	Grade 2	Grade 3	Grade 4
Control	287	303	310	290
Borchi® Gen 0851	309	320	352	313



For more information, please reach us at borchers.com/contact

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