



GemSperse Yellow AX83

Description: Acrylic Resin and Water Based Dispersion of Yellow 83

| | | | |
|----------------------|-------------------|-------------------------|-----------|
| Chemical Type | Disazo Yellow | Constitution No. | 21108 |
| Color Index | Pigment Yellow 83 | CAS No. | 5567-15-7 |

Resistance Properties

| | | | |
|------------------------|---|----------------------|---|
| MEK | 4 | Ethanol | 4 |
| Water | 5 | Ethyl Acetate | 4 |
| Mineral Spirits | 4 | Acid | 4 |
| Xylene | 3 | Alkali | 4 |

Legend: 1=Poor, 2=Fair, 3=Good, 4=Very Good, 5=Excellent

Product Characteristics

| | | |
|---------------------------------------|-------|---|
| Heat Stability (°C/°F) | 200°C | Weatherfastness (1-5): Masstone |
| Lightfastness (1-8): Masstone | 6-7 | Weatherfastness (1-5): Tint 1:10 |
| Lightfastness (1-8): Tint 1:10 | 6 | |

Weatherfastness: 1=Poor, 2=Fair, 3=Good, 4=Very Good, 5=Excellent

Lightfastness: 1-2=Poor, 3-4=Fair, 5=Good, 6-7=VG, 8=Excellent

Physical Properties

| | | | |
|---------------------------------------|---------|----------------------------|------------|
| Fineness of Grind (µm) | <10 | Specific Gravity | TBA - TBA |
| Volatile Organic Content (ppm) | | Viscosity (cP) | 800 - 1200 |
| pH | 8 - 9.5 | Pigment Content (%) | 40 |

Applications

| Plastics | | Coatings | | Inks | | Other | |
|----------|--------------------------|----------------------|-------------------------------------|---------------|-------------------------------------|---------------|-------------------------------------|
| PVC | <input type="checkbox"/> | Decorative | <input checked="" type="checkbox"/> | Water Flexo | <input checked="" type="checkbox"/> | Paper | <input type="checkbox"/> |
| PE | <input type="checkbox"/> | Automotive/Aerospace | <input type="checkbox"/> | Solvent Flexo | <input type="checkbox"/> | Rubber Latex | <input checked="" type="checkbox"/> |
| PP | <input type="checkbox"/> | Industrial | <input checked="" type="checkbox"/> | InkJet | <input type="checkbox"/> | Finger Paints | <input type="checkbox"/> |
| PS | <input type="checkbox"/> | Powder | <input type="checkbox"/> | UV | <input checked="" type="checkbox"/> | Seed Coatings | <input checked="" type="checkbox"/> |
| PET | <input type="checkbox"/> | | | Offset | <input checked="" type="checkbox"/> | | |

Not Frequently Used Limited Recommended

Comments: Reddish yellow shade with very high color strength. Fastness properties much higher than other diarylide yellows, but often not high enough for decorative paints.

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