



8180M Syn Micronized Red Iron Oxide

Lanox Iron Oxide

Description: 8180M is our bluest shade synthetic micronized red oxide. 8180M is FDA approved (Section 178.3297).

Chemical Type	Syn Micronized Red Iron Oxide	Constitution No.	77491
Color Index	Pigment Red 101	CAS No.	1309-37-1

Typical Chemical and Physical Properties

Fe Content (Fe₂O₃) - % Min.	96
Volatile Matter (220°F) - % Max.	0.50
pH	4.5 – 7.5
Particle Shape	Spherical
Water Soluble Salts (% Max.)	0.60
Oil Absorption (g/100g)	15 - 25
Sieve Residue (325 mesh) - % Max.	0.008
Tamped Apparent Density (g/cm³)	1.10
Density (g/cm³)	5.0
Heat Stability	750°C (HDPE)
Moisture Content (%)	<1.0
Weatherfastness	5
Lightfastness	8

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

Applications

Plastics		Coatings		Inks		Other	
PVC	■	Decorative	■	Water Flexo		Paper	
PE	■	Automotive/Aerospace		Solvent Flexo		Rubber	
PP	■	Industrial	■	InkJet		Finger Paints	
PS	■	Powder	■	UV		Seed Coatings	
PET	■			Offset			

Fiber

Not Frequently Used Limited Recommended

Comments:

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