



1820M Syn Micronized Yellow Iron Oxide

Lanox Iron Oxide

Description: 1820M has superior dispersibility and improved hiding. 1820M is darker and more red in shade compared to 1810M. 1820M is FDA approved (Section 178.3297).

Chemical Type	Syn Micronized Yellow Iron Oxide	Constitution No.	77492
Color Index	Pigment Yellow 42	CAS No.	51274-00-1

Typical Chemical and Physical Properties

Fe Content (Fe₂O₃) - % Min.	86
Volatile Matter (220°F) - % Max.	1.0
pH	4.0 - 7.5
Particle Shape	Acicular
Water Soluble Salts (% Max.)	0.25
Oil Absorption (g/100g)	25 - 35
Sieve Residue (325 mesh) - % Max.	0.008
Tamped Apparent Density (g/cm³)	0.40 – 0.60
Density (g/cm³)	4.10
Heat Stability	171°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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