



Davis Colors™ Red 1117

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Pigment Red 101 • Color Index No. 77491 • CAS 1309-37-1

Davis Colors™ Synthetic Iron Oxide Medium Red 1117

Description

Davis Colors™ Red 1117 is a blend of medium and dark shade primary synthetic iron oxide reds (Fe₂O₃). It is designed for use in concrete, concrete products and mortar. It is manufactured in large batches on intensive grinding and blending equipment. Each batch is measured throughout the process and verified on spectrophotometer to certify its conformance with standards for tint strength and shade. It meets or exceeds ASTM C979-82 standards for pigments used in cement. Davis Colors™ Red 1117 is color-stable in processing temperatures below 1000°C (1832°F). It is of sufficient purity for use in packaging or articles that come in contact with food (21CFR), but not suitable for the direct coloration of pet food or cosmetics. All Davis Colors™ iron oxides are manufactured under strict QC and environmental controls for reliable and consistent quality, stable under exposure to sunlight and UV radiation and are alkali, chemical and weather resistant. Davis Colors™ Red 1117 is packaged in 50 pound multiwall paper bags and shrink-wrapped onto pallets of 2000 pounds and also available in Mix-Ready® disintegrating bags. *Uses: concrete, masonry, pavers, roof tile, brick, stone, stucco, plaster, low-gloss paint, plastics and rubber.*

Composition/Typical Properties

Fe ₂ O ₃ content (%)	95 – 96
SiO ₂ content (%)	<1
Oil Absorption (g/100g)	24
Weight per Gallon (lbs)	40
Specific Gravity (g/cm ³)	4.8
Bulk Density (lbs/ft ³)	25
325 Mesh Retention (%)	<0.2
Water Soluble Salts (%)	<0.5
Ignition Loss (%)	<2
Moisture content (%)	<1
pH	3 – 7
Particle Shape	Spherical
Predominant Particle Size (µm)	0.40

Typical Trace Metal Content in Parts Per Million (ppm)

Arsenic (As)	<10
Antimony (Sb)	<15
Cadmium (Cd)	<1
Chromium (III) (Cr)	<350
Copper (Cu)	<300
Lead (Pb)	<5
Mercury (Hg)	<1
Nickel (Ni)	<50
Selenium (Se)	<2

The values for typical contents and trace metals are provided as general information only. They are approximate values for reference and not specifications utilized in our standard QC procedures for color and consistency.

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