



Mad Oils, Inc. d/b/a Mad Micas
430 S. Congress Ave., #2
Delray Beach, FL 33445
madmicas.com

CERTIFICATE OF ANALYSIS

Representative Sample Test Results

Identification

Product identifier: Mad Micas Steel Works
Other name: Silver-black mica powder
Supplier: Mad Oils, Inc. d/b/a Mad Micas
430 S. Congress Ave., #2
Delray Beach, FL 33445
+1-561-845-0050
Recommended use: Colorant

Chemical Analysis

| Ingredient | CAS # | Specs | Results |
|------------------|------------|--------|---------|
| Mica | 12001-26-2 | 69-73% | 70.7% |
| Titanium dioxide | 13463-67-7 | 26-30% | 28.7% |
| Iron oxide | 1309-37-1 | 0-1% | 0.6% |

General Analysis

| Characteristic | Specs | Results | Methodology |
|----------------------------------|---------------------|------------------|-------------------|
| Particle size (80% within range) | 10-60 μm | Conforms | Laser diffraction |
| Particle size D50 | 21-26 μm | 23 μm | Laser diffraction |
| pH (4% H ₂ O) | 6-9 | 7.2 | ISO787-9 |
| Loss on drying (105° C) | $\leq 0.5\%$ | $\leq 0.5\%$ | ISO787-2 |

Heavy Metals

| Metal | Results | Metal | Results |
|---------------|---------------|---------------|---------------|
| Arsenic (As) | ≤ 2 ppm | Mercury (Hg) | ≤ 1 ppm |
| Barium (Ba) | ≤ 50 ppm | Nickel (Ni) | ≤ 10 ppm |
| Cadmium (Cd) | ≤ 3 ppm | Lead (Pb) | ≤ 5 ppm |
| Chromium (Cr) | ≤ 20 ppm | Antimony (Sb) | ≤ 1 ppm |
| Copper (Cu) | ≤ 50 ppm | Zinc (Zn) | ≤ 50 ppm |

Microbial Purity

| Tested | Results |
|----------------------------|---------------|
| Total viable aerobic count | < 100 CFU/g |
| Ph.Eur.USP XXII | No pathogens |

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