

CERTIFICATE OF ANALYSIS (COA)

Manganese Dioxide for Catalytic Filtration in Water Treatment

Manufacturer: BTL New Material Co., Ltd.

Website: <https://manganeseesupply.com>

Product Name: Manganese Dioxide (Catalytic Grade)

Application: Catalytic Filtration for Iron, Manganese Removal

Batch / Lot No.: MDCF-2025-09 **Country of Origin:** China

Production Date: 2025/9/15 **Test Date:** 2025/9/28

Parameter	Specification	Test Result	Method
MnO ₂ Content	≥ 85.0 %	88.3 %	Chemical analysis
Iron (Fe)	≤ 2.0 %	0.68 %	ICP-OES
Heavy Metals (Pb, As)	≤ 0.01 %	< 0.005 %	ICP-MS
Particle Size	0.8 – 1.25 mm	0.8 – 1.25 mm	Sieve analysis
Bulk Density	1.2 – 1.6 g/cm ³	1.38 g/cm ³	ASTM C29
Moisture Content	≤ 5.0 %	2.3 %	Gravimetric
pH (as slurry)	6.0 – 9.5	7.4	pH meter

Conclusion: PASS – All tested parameters comply with specifications and are suitable for catalytic filtration applications.

Authorized By: lipan **Date:** 2025/10/5

Signature & Company Stamp

