

SLOW-RELEASE GELS & SOLID ADSORBENTS · 90-DAY AUTONOMOUS VAPOR-PHASE GEL

ClO₂ Slow-Release Formaldehyde Removal Gel

90-day continuous slow-release gaseous ClO₂ purification gel box for wardrobes, bedrooms, offices, and e-commerce private-label OEM.

PATHWAY $\text{ClO}_2(\text{g}) + \text{HCHO} \rightarrow \text{CO}_2 + \text{H}_2\text{O} + \text{Cl}^-$



TECHNICAL SPECIFICATIONS & OPERATING PARAMETERS

Factory QC Standard · Verified Batch Parameters

Net Weight & Coverage	200g standard jar (150g/250g OEM optional); covers 10–15 m ² per jar
Active Release Rate	0.01 – 0.03 ppm steady-state indoor ClO ₂ release (below 0.1 ppm OSHA TWA)
Effective Service Life	60 – 90 days after foil activation (depending on ambient temperature)
Target Pollutants	Airborne Formaldehyde (HCHO), TVOC, Mold Spores, Musty Closet Odors
OEM Packaging	Custom jars, bilingual retail boxes, shrink-wrap 4-packs / 6-packs
Product Grade	High-Capacity Chemisorption & Sustained-Release Grade
Specific Gravity / Density	0.48 – 0.78 g/cm ³ (Bulk apparent density)
Flash Point & VOC Content	Non-flammable / Non-combustible under normal indoor conditions · VOC: 0 g/L (Zero VOC emission)
Application Method	Peel foil seal, add activator (or self-activating gel), adjust slotted diffuser cap
Transport & Customs HS Code	Non-Dangerous Goods (Non-DG for Sea/Air) · HS 3802.10.1000
Quality & Test Compliance	ASTM D2867 / GB/T 12496.8 Iodine & Gas-Phase HCHO Chemisorption (≥ 93.5% enclosed-cavity HCHO & odor capture (60–90 day cycle))