



Orfom[®] MC Collectors

Orfom[®] MC Collectors are highly effective reagents for mixed sulfide mineral operations. Our products are tailored to each specific operation as the predominate collector to maximize sulfide mineral recovery. These formulations have been shown to replace multi-component reagent systems for the recovery of copper sulfides and molybdenite. The Orfom[®] MC collectors are shown to significantly increase copper and copper-molybdenum recoveries, while minimizing undesirable mineral recovery like pyrite. All our products are compatible with conventional collectors, depressants, frothers and are stable over a wide pH range.

Orfom[®] MC collectors are designed to meet each operations specific needs. Below are examples of the benefits of our chemistry base:

Typical Values of Orfom[®] MC Sulfur Based Collectors

Characteristics	MC-37	MC-44	MC-47	MC-62	MC-63	ASTM Method
Specific Gravity at 16.6 °C (g/ml)	0.953	0.830	0.830	0.801	0.878	D1298
Density Conversion (lbs/gal)	7.95	6.93	6.93	6.68	7.33	D1298
Flash Point (°C)	93	91	81	71	68	D93
Viscosity at 25 °C (mm ² /sec)	9.8	2.9	2.8	1.8	3.7	D445

Orfom[®] MC-37 and MC-47 Collectors:

- Are highly effective, economical, non-selective collectors for copper sulfides and molybdenite
- Demonstrate increased recoveries as sole collector replacing commonly used reagents like xanthates, fuel oil, and diesel at lower total dosage
- **Orfom[®] MC47 Collector** is REACH compliant and classified as non-carcinogen
- **Orfom[®] MC-37 Collector** provides excellent recoveries where higher viscosity requirements are needed

Orfom[®] MC-44 Collector:

- Formulated to provide excellent recovery of copper, copper-molybdenum and molybdenum sulfide minerals for controlled environment operations
- Maintains high recoveries as sole reagent replacing xanthates and diesel/kerosene at lower combined dosage
- This product is non-carcinogen and classified as REACH compliant

Orfom[®] MC-62 and MC-63 Collectors:

- Exhibits higher total copper recovery when secondary copper sulfides are present
- Demonstrates high recovery of molybdenite
- Provides greater selectivity to the rejection of pyrite
- Provides superior copper and molybdenum sulfide recovery at low reagent dosages
- Designed for use without the presence of diesel or kerosene
- Results in high recovery at significantly lower dosage rates than other common collector systems
- These products are non-carcinogen and classified as a REACH compliant

Do not hesitate to contact us for **Technical Support** at miningtech@cpchem.com or for **Customer Assistance** at mining@cpchem.com.

Product Safety information and Safety Data Sheets are available on our website at www.cpchem.com/mining.