

PALM



a **umicore** company

Cobalt Sulfamate Liquid

Palm International's Cobalt Sulfamate Liquid is a specially produced dark red liquid formula containing 10.0% - 10.8% cobalt metal suitable for surface finishing and other applications. Palm's Cobalt Sulfamate Liquid is manufactured to demanding specifications using carefully selected raw materials and is subjected to stringent quality control standards and testing.

Store and handle as an acid solution in a cool dry area away from foodstuffs. Keep container tightly closed.



Concentration

143 - 157 g/L by Weight Cobalt
10.0 - 10.8 % by Weight Cobalt

Appearance

Clear - Dark Red Liquid

Contaminants

Measured in ppm

Analysis:

Parameter	Specification
pH	4.0 - 4.5
Copper	< 5 ppm
Iron	< 5 ppm
Lead	< 3 ppm
Zinc	< 3 ppm
Insolubles	None Detected
Specific Gravity	1.440 - 1.480 SG

Shelf Life

If stored in a cool dry area at a temperature above 40° F tightly closed in it's original container, Cobalt Sulfamate Liquid has an indefinite shelf life.

Packaging

5 gallon pails and 55 gallon drums

Storage / Safety

Store and handle as an acid solution.