

CHEMOREX CP-160 is a carefully formulated blend of 5-nonylsalicylaldoxime and a branched chain diisobutyrate modifier together with a high flash point diluent. It forms a water insoluble complex with copper and other cations in an acid solution according to the equation shown:-



APPLICATION INFORMATION

CHEMOREX CP-160 is used in the solvent extraction of copper.

This formulated product has a history of application in circuits that can benefit from a slightly weaker version of the CHEMOREX CP-150. In such circuits it may be more cost effective to use the weakened formulation in order to achieve higher net transfers of copper. The product retains its high chemical selectivity and stability.

The copper is easily recovered from the CHEMOREX CP-150 by stripping with high acidity copper sulphate electrolytes as typically found in electrowinning tankhouses.

PRODUCT SPECIFICATION

PHYSICAL DATA

Appearance	Clear amber coloured liquid free from visible impurities.
Specific gravity, 25°C	0.95 – 0.98
Viscosity cP at 25°C	Not more than 200
Flash Point °C	Not less than 62 (PMCC)

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PERFORMANCE DATA

Copper uptake, g/l per %	0.56 – 0.59	
Extraction kinetics, approach to equilibrium at 25°C,%	15 sec	Not less than 85
	30 sec	Not less than 95
Strip kinetics, approach to equilibrium at 25°C	15 sec	Not less than 95
	Copper extraction isotherm point at 25°C, g/l	
	Organic	Not less than 4.2
	Aqueous	Not more than 1.6
Copper strip isotherm point at 25°C,g/l	Organic	Not more than 2.1
	Aqueous	Not less than 32.0
Copper/Iron selectivity		Not less than 2000
Phase disengagement, sec	Extract	Not more than 60
	Strip	Not more than 60
Copper complex solubility at 0°C		
	At 24 hours	No precipitation

The performance data is determined using standard Quality Control Test methods and equipment. Further information is available on request.

PACKAGING

The product is available in poly or epoxy lined 180Kg (net) drums or IBC's upon request.

TECHNICAL SERVICE

Expert application advice and assistance in optimising the use of this product is readily available. Material Safety Data Sheets are available on request.

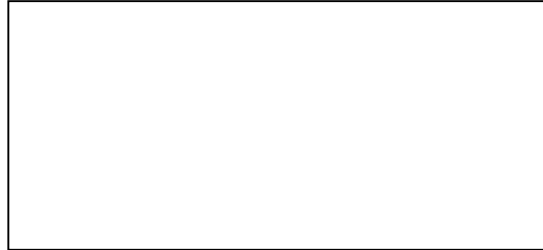
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AVAILABILITY

This product is available through expert local representation in all regions of the Mining Industry. Please contact the people at the address below for further information:-



Information provided in this technical document is believed to be accurate and is provided in good faith, however, Longlight International assumes no liability and makes no warranty or representation that the information is correct and complete. Final determination of suitability for use of the product is the sole responsibility of the user who alone knows the intended conditions of use and the safety precautions that are being observed. Issues relating to patent infringement are the users responsibility

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