

SOLVENT EXTRACTION & LEACHING AID

Mineral Processing Solutions for Various Leaching Operations



POWER
CHEMICAL SERVICES

Achieving Maximum Extraction of Metals Through Chemistry

Mineral are extracted from ores via various methods such as agitated leaching, heap leaching, or bioleaching mechanism to separate the mineral from the bulk of gangue minerals. Solvent extraction (SX) purifies and upgrades the pregnant leach solution (PLS) produced by the leaching operation to generate an electrolyte from which high quality mineral cathode can be electrowon.

Our various chemistry products at **POWER CHEMICALS**, for your leaching, solvent extraction, and electrowinning process are your solution to maximizing your mineral recovery.



Our **Solvent Extraction & Leaching Aid Chemical Reagents** are a perfect fit for :

- Nickel & Copper Solvent-Extraction
- Various mineral electrowinning processes
- Agitated leaching for various minerals



Our Chemical Products

POWERLEACH™ : Leaching Aid for Maximizing Mineral Recovery in Leaching

Mineral recovery in an agitated leaching process can sometimes be hindered by clay minerals that raises the viscosity of the slurry recovery. Such as the case for heap leaching processes that sometimes penetrate only the stacked ore surfaces and reduce the maximum potential for mineral recoveries from the process. Our **POWERLEACH Leaching Aid** is your choice to maximize your mineral recovery for various leaching methods.

POWER SOLVEX™ : Organic Extractant for Mineral Solvent Extraction

Solvent extraction is used in order to increase the purity of the mineral bearing electrolyte solutions prior to the electrowinning process. Our **POWER SOLVEX organic extractant** products complexes with the mineral, resulting in the transfer of the metal ion from the aqueous phase into the organic phase, leaving all other impurity species present in the PLS in the aqueous phase.

POWER WINNAID™ : Electrowinning Aid for Increasing your Production Rates

As mineral refiners move to higher current loading in an electrowinning cell to increase production rates, the need for robust smoothing aids to sustain LME grade A quality copper cathode will become acute. Our **POWER WINNAID Electrowinning Aid** is proven to effectively regulate the electrodeposition of various minerals on lead. is more effective than many natural polymers, providing better initial plate formation through the creation of more nucleation sites



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