Gold Solvent Extraction

Gold can be leached from various feed materials by hydrochloric acid under oxidizing conditions and recovered by solvent extraction followed by direct reduction with a chemical reductant to granular metallic gold. The granular metallic gold is then washed, melted, and cast into >99.9 % gold ingots.

Sources of feed materials containing gold

1. High grade ores and gravity concentrates
2. Merrill Crowe Precipitates
3. Chemical and metal precipitates containing crude gold
4. Electrolytic plating operations that produce anode slimes and cathode sludges
5. Electronic scrape containing gold coated parts
6. Mixed gold and PGM concentrates
7. Scrap carat jewelry / gold filings

Advantages of the Process:

- Greater than 99 % recoveries producing granular gold with > 99.9 % assay
- This technology can be implemented for any scale of operation
- Easily integrated into existing operations with our modular plant design
- Low capital & operating costs compared to pyro or electro-refining processes

Please contact SX Kinetics for further information regarding the Gold Solvent Extraction / Reduction Process. We can design and manufacture a modular gold production plant to meet your specific needs.

SX Kinetics, Inc.

504 - 249 Ruttan Terrace,
Cobourg, Ontario, Canada, K9A 5X6

Web Site: http://www.sxkinetics.com

Further Information Contact:

Mr. Steven Webster, Hydrometallurgist

Tel +1 905 372 5981 Fax +1 905 372 4091
Email: steven.webster@sxkinetics.com