Cobalt and nickel separation

Title: Cobalt and nickel separation
Generated on: 2026-04-01 04:22:17

Separation of cobalt from nickel is almost invariably required at some stage to obtain maximum payment for these metals, but the separation is frequently complicated by the presence of certain impurities, ...

The above discussion further reveals the mechanism of ethylenediamine modified SG to enhance its separation performance of nickel and cobalt and provides theoretical guidance for ...

Here we developed the selective separation of cobalt versus nickel using a green ionic liquid, trihexyl (tetradecyl)phosphonium bis-2,4,4- (trimethylpentyl)phosphinate, from an HCl leached ...

Today, increasingly stringent demands for the high-purity cobalt and nickel salts required for battery applications in consumer electronics, electric vehicles, and solar applications are again challenging ...

Cost-effective and sustainable improvements to Co/Ni separations chemistry are needed. This work presents an alternative strategy to separate Co and Ni by selective precipitation, which ...

The selective separation of cobalt from nickel is of major importance for the recovery of cobalt from primary or secondary sources, as well as for analytical purposes.

The separation of cobalt and nickel was carried out via solvent extraction using the commercial extractant bis (2,4,4-trimethylpentyl)phosphinic acid (Cyanex-272).

Versene complexed nickel preferentially to cobalt at a pH of 9 in Nicaro liquor. Straightforward distillation then resulted in a precipitate of 99 percent cobalt and a filtrate of 97 ...

Website: https://esafet.co.za