



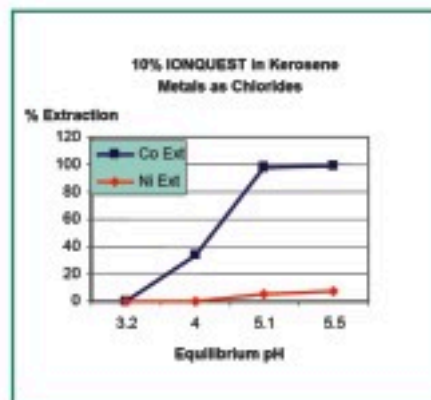
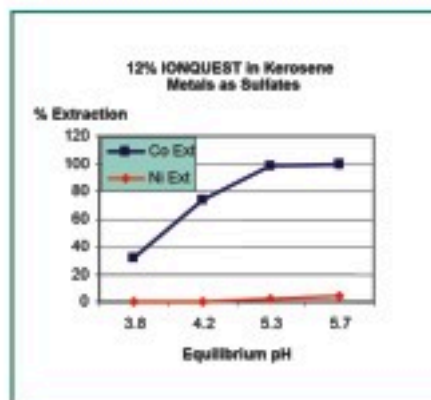
IONQUEST[®] 290

For Effective Separation of Cobalt and Nickel

As a leading specialty chemicals supplier, Rhodia offers IONQUEST[®] 290, our newest solvent extraction reagent designed for the mining industry for effective separation of cobalt and nickel.

EFFECTIVE SEPARATION

Distribution coefficients in sulfate and chloride between cobalt and nickel.



THE RHODIA ADVANTAGE

Our focus is on innovation and solid customer relationships, in which our goal is to become an extension of your business. Rhodia has what you need to face the challenges of the mining industry.

TECHNICAL SERVICE

Our dedicated team of technical experts responds rapidly to the ever changing needs of our customers, anywhere in the world. Contact our technical team today by calling 1-888-776-7337.

**Rhodia is your innovative partner in solvent extraction.
We're your solution provider.**

KEY BENEFITS

- Excellent separation between cobalt and nickel
- Enhanced performance in loading or stripping in sulfate and chloride systems
- Superior product purity (95% min)
- Compatible with existing cobalt and nickel extraction systems
- Easy-to-handle with minimal odor



Chemistry is our world, Responsibility is our way

www.rhodia-novecare.com

Product Technical Data

IONQUEST® 290 Bis (2,4,4-Trimethylpentyl) Phosphinic Acid

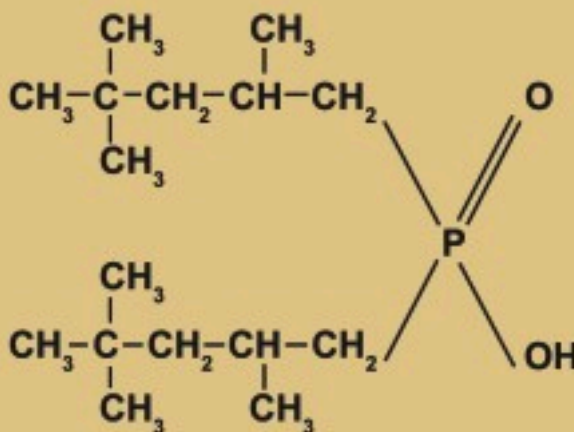
Specification:

Typical

Assay, %	95% min.
Appearance	Clear Colorless to pale yellow liquid
Viscosity, cps (25°C)	88-90
Specific Gravity, 25°C	0.918
Phosphorus, %	10.5 - 11
Refractive Index, 25°C	1.456
Freezing point °C	<-30°C
Flash Point, Closed Cup	<108°C

Formula – C₁₆H₃₅O₂P

Molecular Weight – 290.4 CAS No. 83411-71-6



Typical Applications

IONQUEST® 290 is a solvent extraction reagent capable of extracting several metals via a cation exchange mechanism similar to Rhodia's DEHPA®. It is miscible with common solvent extraction diluents and is very stable to both heat and hydrolysis.

Although it is used primarily for the separation of Cobalt from Nickel it is suitable for extracting other cations such as Zinc, Cadmium, Manganese and Magnesium. Metal extraction is achieved mainly by pH control.

The Distribution Coefficients for extracting these metals are affected by many things such as the Phase Ratio, Concentrations, Kinetics, pH and Temperature. Please contact Rhodia's Technical personnel to discuss specific systems.



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