

Application story



Handling Particulates in Mining Waste Product

Location	Far East	Hydra-Cell model	G35XKTGTTTTB
Type of application	Processing Recycled Sulphuric Acid	Flow rate	120 lpm (31.7 gpm)
Liquid	Sulphuric Acid	Pressure	(70 to 80 bar (1015 to 1160 psi))
Application details	One of the largest manufacturers of Zirconium in the world uses 20% content of H₂SO₄ (sulfuric acid) in its Zirconium mineral refining process. Sulfuric acid with the Zirconium powder can be neutralized by alkaline to treat the waste acid. The alkaline treatment facility processes approximately 150 tons per day. A reverse osmosis engineering company selected the Hydra-Cell G35 with a Hastelloy pump head to process the recycled sulfuric acid. The seal-less design and horizontal disk check valves of Hydra-Cell handle the Zirconium powder (up to 0.5 mm particle size). The pump head and valve materials selected resist acidic corrosion. In addition to these benefits, the company appreciates the compact design and minimal maintenance of Hydra-Cell. Capacity of this operation is expected to increase by 800%, creating more Hydra-Cell pump opportunities.		
Advantages of Hydra-Cell pump on this application	• Hydra-Cell seal-less design handles particles with ease • Materials of construction resist acidic corrosion • Minimal maintenance • Compact design		

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