

Gold Solution Precipitation Tanks

Derakane Epoxy Vinyl Ester Resins – Case History



Location / Year

Manufactured in 2012 for a gold refinery in South Africa.

Fabricator

Fibre-Wound, South Africa.

Fabrication

The tanks were manufactured by hand lay-up with PVDF as chemical resistant liner and **Derakane 470** resin in the structural layer.

Comment/Design

All equipment designed and manufactured for vacuum conditions according to BS 4994:1987.

Technical Data

SO₂ Precipitation Reactors:

2No. Ø1450x1992 mm (57x78 in)

1No. Ø1910x2393 mm (75x94 in)

PGM Reactor: 1No. Ø1685x2202 mm (66x87 in)

Service Conditions

SO₂ Precipitation Reactors: dissolved gold solution and SO₂ at design temperature of 90°C (194°K)

PGM Reactor: dissolved gold solution, SO₂ steam at design temperature of 130°C (266°K)

SO₂ Precipitation Reactor: dissolved PGM solution, NaOH, Formic Acid at design temperature of 130°C (266°K)

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