VULCAN

REFRACTORIES APPLICATIONS
PRIMARY ALUMINIUM

Process Information : Reduction Cell Side Wall

Reduction cell wall designs are engineered to allow a controlled freeze layer of cryolite to develop and contain the cell contents during the reduction process. In addition to the corrosion resistance linings have also to withstand the effects of local electromagnetic stirring, removing the frozen layer and exposing the side walls to molten cryolite and aluminium.

- Process temperatures circa 960ºC
- Chemical corrosion by cell contents
- Long expected campaign life circa 2500 days
- Localised oxidisation at the top of the cell and behind the side wall lining
- Side wall heat dissipation is important to maintain cell efficiency
- Localised abrasion and erosion

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