



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 960°C
- 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

DISCLAIMER

Any advice, opinion, recommendation or information is given to assist the use of the company's products but on the basis that the end user must ensure their suitability for the application intended.

In particular the company cannot accept liability for loss or damage which may arise from the incorrect use of its products or from poor workmanship on the part of the user.

Information is compiled from routine quality control testing and does not constitute a specification.

Information is provided in good faith and is subject to review whenever necessary and no guarantee or warranty is implied.

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