

filters offer highest throughput performance which has a considerable mechanical impact on the filter cloth.

6. Conclusion

In summary, the following applies across all filtration process steps in an alumina refinery: the life of filter cloth and thus operating cost is closely linked to the right choice of cloth material in terms of resistance against temperature, chemical attack and abrasion. Precise manufacturing according to the needs of the equipment has a further important impact on the life of cloth. Yarn type, number and thickness of thread as well as the weave type play a significant role when it comes to the question of how to improve throughput and filtration efficiency of cloth. The Bayer process requires a great deal of filter media which is a significant cost factor in a plant. It is worthwhile to evaluate each individual process, to examine ways to improve, and thus save on costs.

7. References

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