

Entrepreneur India

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ALUMINIUM FLUORIDE

| | |
|----------------------------------|-------------------|
| Capacity: | 30000.00 MT/Annum |
| Plant and machinery cost: | 2500.00 Lakh |
| Working Capital: | 0.00 Lakh |
| Rate of return(ROR): | 45.00 % |
| Break Even Point (BEP): | 45.00 % |
| TCI: | 5380.00 Lakh |
| Cost of Project: | 5380.00 Lakh |

Aluminum fluoride is the inorganic compound with the formula AlF_3 . It can be prepared by treating aluminum hydroxide or aluminum metal with HF. As a solid, its structure resembles that of rhenium trioxide, ReO_3 , consisting of distorted AlF_6 octahedra. AlF_3 is refractory, in strong contrast to the other halides of aluminum. AlCl_3 , AlBr_3 , and AlI_3 are dimeric in the liquid and evaporate as dimers as well. In the gas phase, at ca. $1000\text{ }^\circ\text{C}$, aluminium fluoride exists as trigonal molecules of D_{3h} symmetry group. The Al-F bond lengths are 163 pm. Aluminium fluoride is an important additive during electrolyte aluminium production because it lowers the melting point of the alumina feed and increases the electrolyte's conductivity. There is wide scope for new entrepreneurs to venture into this project.

NIIR Project Consultancy Services (NPCS) is a reliable name in the industrial world for offering integrated technical consultancy services. Its various services are: Pre-feasibility study, New Project Identification, Project Feasibility and Market Study, Identification of Profitable Industrial Project Opportunities, Preparation of Project Profiles and Pre-Investment and Pre-Feasibility Studies, Market Surveys and Studies, Preparation of Techno-Economic Feasibility Reports, Identification and Selection of Plant and Machinery, Manufacturing Process and or Equipment required, General Guidance, Technical and Commercial Counseling for setting up new industrial projects and industry. NPCS also publishes various technology books, directory, databases, detailed project reports, market survey reports on various industries and profit making business. Besides being used by manufacturers, industrialists and entrepreneurs, our publications are also used by Indian and overseas professionals including project engineers, information services bureau, consultants and consultancy firms as one of the input in their research.

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