

# BAYER PROCESS CHEMICAL REAGENTS

Mineral Processing Solutions for  
Bauxite to Alumina Processing Reagents



**POWER**  
CHEMICAL SERVICES

# Optimization of Each of your Alumina Production Unit Process

Conversion processes from bauxite to alumina in a Bayer process undergo in a highly alkaline environment. Such extreme pH levels required specific chemistry to be able to function well in a Bayer process.

Whether it's for faster red mud settling in the settlers & washers, higher solid content in classifying thickener underflow, or protecting your digester from corrosion during acid cleaning, we at **POWER CHEMICALS** provide you with our Bayer process chemistry that are formulated for your maximum alumina refinery operations.



Our **Bayer Process Chemical Reagents** are a perfect fit for :

- Washers & Settlers for Bauxite Residue CCD Thickeners
- Sodalite Scale Acid Cleaning Process
- Alumina Trihydrate Classification via Classifying Thickeners
- Alumina Trihydrate Filtration Processes

# Our Chemical Products

## **POWER REDFLOC™ : Hydroxamated Red Mud Flocculant for Red Mud Washers & Settlers**

Our **POWER REDFLOC™ Hydroxamated Red Mud Flocculants** are specifically formulated for your specific needs. We can provide you with the right charge and molecular weight of our red mud flocculants for your optimal operational cost for your bauxite residue (red mud) washer & thickeners.

## **POWER HYFLOC™ : Alumina Hydrate Flocculants for Classification Thickener**

An excellent classifying thickener must be able to prevent high levels of solid content carryover in the overflow without modifying the morphology of the alumina crystals products. Our **POWER HYFLOC™ Alumina Hydrate Flocculant** are your choice for your optimum classifying thickener operations

## **POWERDRY™ : Dewatering Aid for Maximizing Moisture Removal for Alumina Trihydrate Filtration**

Our **POWERDRY™** series are formulated to be able to maximize the filtration process for aiding water rejection, thus lowering your post filtration final product moisture. Whether its a pan filter for your alumina product or belt press for your redmud bauxite residue, our **POWERDRY™** are your choice.

## **POWER FOAM-X™ : Defoamer for High Alkalinity System**

Intensive turbulent mixing in a bayer process commonly involves foam formation. Due to high solid content in bayer process slurries, foam to be more stable and will not disappear on its own. Our various formulations **POWER FOAM-X** will provide you with the best chemistry for your foam control system.

## **POWER CORR-X™ : Corrosion Inhibitor for Sodalite Scale Acid Cleaning**

High pH in Bayer Process are favorable conditions for the formation of sodalite and many other mineral scaling. Sodalite scale must be removed with strong acid. Our **POWER CORR-X™ Acid Cleaning Corrosion Inhibitor** are able to prevent corrosion caused during acid cleaning of your equipment and prolonging their lifetime

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