



SysCAD

Design | Operate | Optimise

SysCAD is the Global Leader in Alumina Refinery Simulation

- A reliable modelling package is essential to get the best out of a process plant.
- SysCAD with Alumina add-on is the ideal platform for building a comprehensive and flexible refinery model for process design or optimising an operating plant.
- Providing the tools you need for project justification, performance evaluation, planning, training, energy and water studies, dynamic simulation, and more...

Bayer Liquor Properties

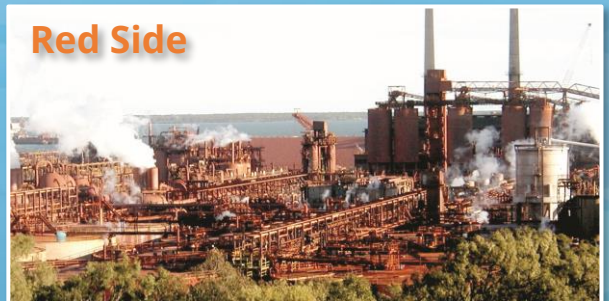
- Extensive library of adjustable Bayer liquor property calculations using industry-standard species definitions.
 - Alumina & oxalate solubility
 - Specific heat capacity
 - Boiling point elevation
 - Density & viscosity

Precipitation Unit Model

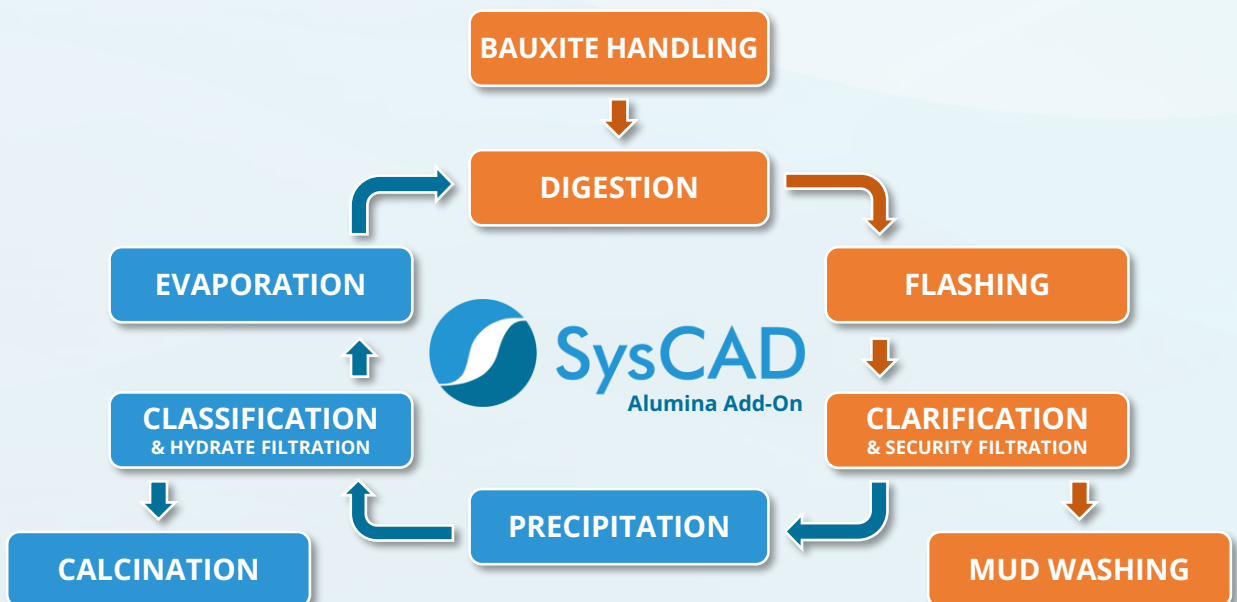
- Comprehensive precipitation unit model
- SSA yield and full PSD solution modes
- Bound soda and oxalate co-precipitation
- Steady-state and dynamic operation



White Side



Red Side



Alumina Industry Expertise

The alumina industry is core to our business. Our team includes process engineers with significant experience in alumina refinery design and operation who are available to assist with training, model development and project support work.

Refineries

Aluminium of Greece, Greece
AOS, Germany
Aughinish, Ireland
EGA, UAE
EurAllumina, Italy
Friguia, Guinea
Gramercy, USA
Hindalco, India
Hydro Alunorte, Brazil
Ma'aden, Saudi Arabia
Nalco, India
QAL, Australia
RTA Vaudreuil, Canada
RTA Yarwun, Australia
Mykolaiv Alumina Refinery, Ukraine
Utkal, India
Votorantim CBA, Brazil
Windalco, Jamaica
Worsley Alumina, Australia

Consultants

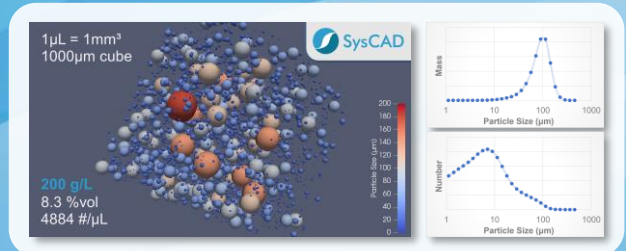
Aditya Birla Technology
Bechtel
Carnac
GAMI China
Hatch Associates
Outotec
Rinalco
RTA Technology
SAMI China
Solvay
Worley



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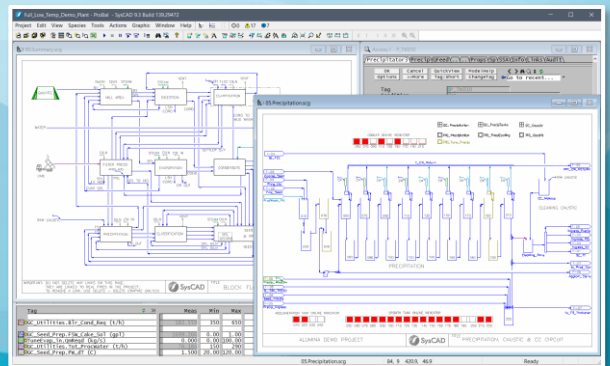
Particle Size Distribution

- Correct operation in precipitation is vital to productivity and high-quality product, free from costly impurities and fines.
- Enhance precipitation, classification and material handling modelling by using PSD alongside the Alumina add-on.



SysCAD Model Benefits

- A well-maintained plant model forms an invaluable Knowledge Base for your site.
- Implement your own custom liquor properties and process unit models.
- Plant-wide use and visibility with structured data entry & reporting tools.
- Significant commercial value for plant improvements and daily operation.



SysCAD is the proven and trusted modelling tool of choice for the global alumina industry.