

## ATEX: Fluids and Powders P-921

Design of Process Installations with reference to ATEX Directive for both

- Zoning 0x – Fluids
- Zoning 1x – Powder

Fluids  
Design of

- Instrumentation and Measuring System – Intrinsically Safe System.
- Lightning
- Power Distribution
- Pumping System with e.g., over pumping capabilities to prevent temperature built up
- Ventilation – Process and Comfort
- Ventilation – Fume Extraction
- Explosion Relief Damper System
- Fire Fighting System like e.g., Foam System.

Power

Design of ATEX installation in relation with materials and specifically Powdered Products depend largely on the actual report on Product Combustibility done by External laboratory. From there P-Engineering handles the necessary Design precautions to meet the ATEX requirements.

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*Pictures from Ethanol Distillation and Reception Station, Spray Drying Chamber with Explosion Damper & Duct and Storage Facility for Special Oils.*