



# Inertization

Intelligent systems and solutions with inert gas

Our knowhow in application for your security



# YARA – Intelligent systems and safety solutions with inert gas



## Detecting sources of danger

The hazards caused by so-called hot spots or smoldering fires, sudden spontaneous combustion and explosions lurk everywhere in industry and business, storage, processing and when transporting combustible powders and liquids.

## Complying with regulations

In co-operation with the insurers for occupational accidents, legislation has provided all users and shippers involved in this critical area with strict regulations and safety requirements, which must be adhered to.

On international level the ATEX-regulations have to be considered for explosion prevention. In addition the guidelines CEN/TR 15281, VDI 2263-2 and BGV C15 are used.

As an effective preventive measure YARA offers innovative technological systems based on inert gases. Inert gases have a low level of reactivity and reduce the Oxygen concentration to below the critical level.

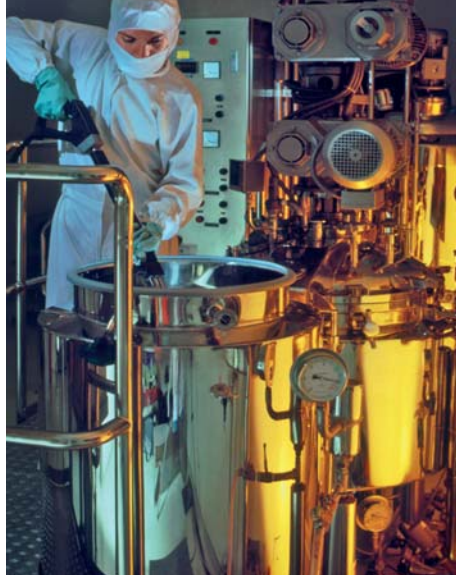
By the use of intelligent systems in the machinery and equipment requiring protection, inert gas prevents the occurrence of critical operating conditions from within, and consequently any resulting explosions and fires.

YARA offers a complete service package, starting with the determination of the state of risks up to the ready to use start up of the inertization plant.

The use of inert gases effectively prevents the spontaneous combustion of flammable dust, liquids and gases as well as the oxidation of oxygen sensitive products.



# YARA – Safety concepts for complex requirements



## The utilized materials

These inert gases, specified in the following according to their effectiveness, are recommended for inertization application:

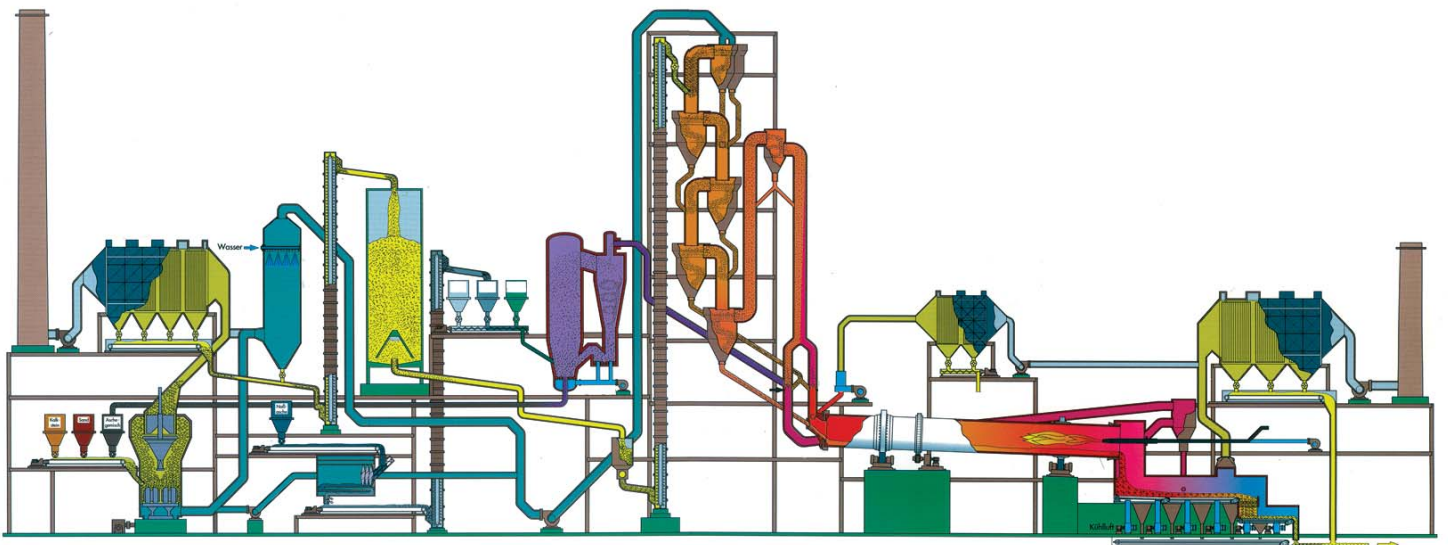
- Carbon Dioxide
- Steam
- Flue gases
- Nitrogen
- Noble gases

## Specially adapted technology

Depending on the individual task or existing flow of material during processing, transport or storage of dangerous goods, YARA will prepare a customer-specific concept consisting of the utilized media and reliable processing technology including the appropriate control technology.

## Main areas of application are:

- Chemical and petrochemical industry
- Paint and lacquer industry
- Pharmaceutical industry
- Thermal combustion plants
- Power plants
- Food industry
- Cement and paper industry
- Detergent industry
- Adhesive and solvents industry





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### Safe Supply

We will advise you in the most economic and technically efficient methods of storage methods. As one of the leading gas suppliers in Europe, we endeavour to reliably supply absolute quality on -just in time-basis.

The YARA safe concept includes the calculation of necessary gas supply and its storage as well as the necessary technical design of the local storage tanks with all relevant armatures under consideration of the standards and guidelines given by the authorities.

- Qualified consultation
- Competent troubleshooting
- System development
- Customer care



### YARA-Inertgases protect preventative and secure

- against explosions
- against spontaneous combustion
- against fires
- against oxidation

