Durferrit® ASD Heat Transfer Salt

Durferrit heat transfer salts type ASD develop broad application ranges in industrial heat transfer plants, at temperatures between 180 and 550°C.

Properties of ASD Heat Transfer Salts

The finished product of prime quality is manufactured in our fully automated production plant. To avoid objectionable impurities even within ppm range, only specially selected raw materials are used, which, in particular cases, have to expel „food grade“ quality.

With our quality management system certified according to DIN ISO 9001/ 2008 and with extensive physical and chemical studies, at any time we ensure excellent and constant quality of our heat transfer salts at any production level.

ASD Heat Transfer Salts offer Advantages

- Excellent heat transfer properties within the working temperature range of 180-550°C. Under the prerequisite of suitable plant materials, blanketing with nitrogen and inspections of the ageing state of the melt at regular intervals, our high purity products can be even used in a temperature range around 550°C.
- Low melting point (~142°C) by using quasi-eutectic composition
- Best possible chemical stability at operating temperature
- Minimum to no foam formation during the melting-down of fresh salt
- Initial melting down with steam (6 bar/usual pressure) possible
- Regenerable with Durferrit ASD REG
- Pressureless operation of the melt despite high temperatures

Photo: by courtesy of MAN DWE

Durferrit® ASD Heat Transfer Salt

Durferrit Services

In order to avoid plant failures and production interruptions, heat transfer salt melts should be monitored for chemical composition and further usability on a regular basis.

Users of DURFERRIT heat transfer salts can have these tests carried out by the laboratories of Durferrit.

Furthermore, these service analyses can provide important indications for possible leaks in the reactor system, increased corrosion risk and changes of heat transfer in the plant.

Fields of Application

- **Heating of chemical reactors for endothermic processes**
  For instance, the commercial syntheses in packed-bed tubular reactors for heterogeneous gas phase reactions.
- **Cooling of exothermal reactions for chemical syntheses processes**
  The removed heat can be recovered.
- **Heat Storage in CPS Solar Power Plants** for the time-delayed generation of electricity
- **Drying of Gases**
- **Heat Recovery**
- **General Heat Transfer in Process Engineering**

Examples of Use

- Production of phthalic acid – (PAA) and maleic acid anhydride (MAA)
- Production of acrylic acid as basic material for acrylates, coloring and super absorber materials
- Production of methyl-methacrylates as basic material for flat screens (sheets), acrylic glass and adhesives
- Melamine syntheses
- Hydrogenation and dehydrogenation of hydrocarbons
- Polymerisation reactions

For further information

Durferrit GmbH
Industriestraße 3
68169 Mannheim
Fon: +49 621 / 3 222 4-0
Fax: +49 621 / 3 222 4-800
E-Mail: info@hef-durferrit.com
4/13