Molten Salt Pumps

Applications:
- Heat transfer circulation (including solar)
- Heat treatment, tempering, annealing, hardening
- Process transfer and prilling or flaker feed

Key Pump Considerations:
- Safety is the most important aspect!
- Reliability is critical to avoid interruption and minimize maintenance
- Experience, guidance and flexible design features and options are mandatory

Model CWO Features:
- Preferred vertical cantilever shaft design
- No seals, submerged bearings or other rubbing parts in contact with the molten salt results in the best possible pump life and reliability
- Submerged lengths to over 8 feet
- Temperatures to 1652°F (900°C)

Model YWS Features:
- Used when longer pump lengths are required and the molten salt has adequate lubricity
- Split sleeve bearings mounted in split housings allow easy bearing inspection and maintenance
- Submerged lengths to over 50 feet
- Temperatures to 1112°F (600°C)

Flow and Pressure:
- Flows to 4000 GPM
- Pressures to 125 psi

Pump Material Options:
- Carbon Steel
- 316 Stainless Steel
- Inconel/Hastelloy
- Non-metallic materials
- Any heat or corrosion resistant alloy

Molten Salts (Partial):
- Ammonium Nitrate
- Sodium Nitrate/Nitrite
- Potassium Nitrate
- Phthalic Anhydride
- Mg/Na/K Chlorides
- Caustic Soda (NaOH)
- Sodium Carbonate
- Adipic Acid

See also ammonium nitrate and molten metal bulletins

Nagle Pumps manufactures vertical cantilever, vertical submerged bearing, horizontal and submersible pumps for abrasive, corrosive, elevated temperature and hazardous fluid handling applications. See our Website for the representative in your area or contact Nagle Pumps directly.