

## **Beta 1 Case Hardening Powder**

### **Precautions:**

- Beta 1 powder is specially formulated to give an acceptable depth of case hardening to small metal pieces where production time is very short.
- The powder is produced from top quality raw materials giving a consistent material which produces good results every time you use it.
- As with all chemical compounds, care should be taken to ensure that the operators do not breathe in the particles or ingest them if they are disturbed and become airborne.
- Eye protection is recommended.
- It is recommended that a suitable face mask, goggles and gloves are worn at all times when using this product.

### **Method of use:**

- Use a suitable metal or ceramic container and fill to 75 % capacity.
- Heat the piece to be treated to between 800°C - 900°C.
- Place the piece into the container of case hardening powder and once it is under the surface gently agitate the piece to ensure the powder is in intimate contact with the complete surface of the work piece - ensure the work piece is completely covered.
- Leave the work piece for 30 minutes, remove and quench in oil or water as appropriate.
- If a deeper case is required the process can be repeated.
- After use cover the treatment container to exclude air - Beta 1 powder has a high carbon content and can burn if left uncovered.
- Top up the container with fresh powder each time you use it.

### **Health and Safety:**

Hazards associated with the use of BETA 1 Case Hardening Compound Powder

- Components: Charcoal, Sodium Carbonate Solution, Molasses.
- Fire: Slight hazard of fire if exposed to Heat or contact with oxidising agents. Prevention Store in a cool, dry place and prevent contact with any Oxidising agents.
- Explosion: No risk.
- Toxicity: The compound contains Sodium Carbonate which can cause mild irritation to the skin, and has a moderate toxicity with regard to respiratory and digestive systems. Prevention Gloves and overalls should be worn when handling the material. Normal, sensible practice should be followed to ensure that the material is not ingested.

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