

Iron Powder Storage Guidelines

Description:

- > Store the powder indoors in dry conditions (relative humidity of less than 60%) at room temperature (20 °C).
- > Avoid exposure to sunlight.
- > The recommended maximum storage time at <60% RH and ≤20 °C is 6 months from date of shipping. Higher temperatures and/or higher humidity will reduce the recommended storage time. Premixes containing MnS will have even shorter storage times at elevated temperatures and/or humidity conditions.
- > Store the material on pallets and avoid contact with the walls or the floor. Do not stack powder containers directly on top of another.
- > Check the condition of material that has been stored for longer than the recommended time prior to use. Checks can include AD, flow, and visual inspection for rust and agglomeration.
- > Make sure the powder temperature is similar to the temperature near the compaction press. Significant differences can cause flow issues and/or condensation on the powder.
- > These storage guidelines are for unopened packages; it is suggested to use the powder as soon as possible once the package is open. Material degradation can accelerate once the powder is exposed to atmospheric conditions.

Recommended Maximum Storage Times

Product	20 °C (68 °F) and below	30 °C (86 °F)	40 °C (104 °F)
Base Iron, Low Alloy Steels and Premixes	6 months	3 months	2 months

* Times based on relative humidity less than 60%