

Instruments for Physical Testing of Iron Ore

Low Temperature Disintegration - LTD Test System



LTD Test system is designed and manufactured for the testing of Low Temperature Disintegration of Iron Ore according to the following international Standards:

- **ISO 13930** (Iron ores – Dynamic test for low-temperature reduction-disintegration)
- **ISO 11257** (Iron ores – Determination of the low-temperature reduction-disintegration index and degree of metallization)

Low Temperature Disintegration indices (LTD) as well of Degree of metallization and Degree of size degradation, are obtained by measurements of the disintegration test portion after reduction.

The instrumentation consists of an electric **horizontal oven** including two half cylindrical heating elements where the rotating reaction tube is placed.

The **control cabinet** provides for temperature and gases flow rate control.

The reliability of results greatly depends on temperature and reaction gas flow rate accuracy, therefore electronic mass flow meter and high quality temperature controller are supplied. Automation of the tests is obtained by automatic gas supply to the reaction tube.

The ISO 13930 and ISO 11257 Standards specify methods for iron ore testing and are applicable both to lump ores and hot-bonded pellets.

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