



NAKAYAMA
Co.,Ltd.

Apparatus for green sand quality control

Compactability Tester

Molds made by today's molding machines have high compression strength exceeding 2kg/cm² (50φ×50H TP), and hence certain countermeasures are necessary to prevent casting defects caused by gas formed by combustion of organic materials in shell mold cores and other mold parts. Compactability test is a useful tool for quality control of mulled sand with appropriate density and fluidity for the above purpose.



This is for measuring compactability of molding sand, consisting of an air pressure type tester and a sample holder. Compactability test is a quantitative replacement of a qualitative evaluation of molding sand by the feel of a palm when squeezing sand. Amount of moisture and clay in sand as well as oolitic content and degree of mulling can be evaluated by this test.

The test is simple to perform and useful for quick determination of sand quality in laboratory and on production floor.

■ Compactability Tester

Type	NC-CBT-1
Height	680mm
Floor area	330 x 230 mm ²
Weight	40kg
Compression type	air compression
Nominal compression force	10kg
Read method	memory

■ Sample processor

Height	380mm
Floor area	210 x 210 mm
Sieve diameter	150 mm φ
Mesh size	6 mesh

[Attachment] Sample holder: 1 piece
 Tester base: 1 piece
 Push rod: 1 piece



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Casting Quality Improvement Guide in Relation to Mold Properties

increasing the property value.

- decreasing the property value.
- read through it