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<http://www.alumina-ball.com/>

Alumina Grinding Ball, crush resistance and EWT (Equivalent Wear and Tear) Test.

Equivalent Wear and Tear: the wear loss of alumina ball grinding with water in PU tank.

Testing method of the alumina grinding ball crush resistance and EWT (Equivalent Wear and Tear).

1) Test Theory

Test the wear-resistance of alumina grinding ball, grinding in the PU tank.

2) PU tank

PU tank, with size 200X200mm.

3) Wear-resistance tester

Load 4KGs alumina ball in the PU tank, continuous grinding at 80RPM.

4) Sampling alumina ball

Choose 4KGs of appearance quality and size qualified alumina ball, load in the PU tank, add 4KGs water, continuous grinding for 2 hours at 80RPM. Discharge the alumina balls, drying for next step test.

5) Testing Process

Get the weight of the dried alumina ball (m1).

Put the samples in the PU tank, add 4KGs water, continuous grinding for 24 hours at 80RPM.

Discharge the alumina ball, cleaning and drying and get the weight (m2).

Select 10 balls and examine the ball diameter according the test standards.

6) Test result

After the test, the alumina grinding balls have no crack, no break, passed the crush resistance test.

$$EWT = KD(m1 - m2) / m1$$

EWT: wear loss %

K: factor $4.17 \times 10^{-4} \text{mm}^{-1}$

D: average diameter of the alumina ball

M1: ball weight before grinding

M2: Ball weight after grinding

For more details, pls kind visit:

URL : <http://www.alumina-ball.com/>

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