Micum Drum Test Apparatus

LT-M0075 | Evaluation of coke impact and abrasion resistance

ISO 556:2020 • Digital revolution counter • Automatic end-of-programme stop



780 L

NOMINAL DRUM VOLUME

25 rpm

DRUM ROTATION SPEED

Ø100 × 100 cm internal dimensions • Coke samples larger than 20 mm

LT-M0075

Photographs and Components

Test drum, loading cover, control panel and sample collection tray

The LT-M0075 exposes coke samples to controlled impact and abrasion inside the drum. A digital counter monitors the preset number of revolutions and automatically stops the motor when the target is reached.

TEST DRUM

Provides 780 L nominal volume and Ø100 × 100 cm internal dimensions.

LOADING COVER

The hinged cover provides access for loading and unloading the sample.



CONTROL PANEL

Digital revolution counting, start and stop functions are managed here.

SAMPLE COLLECTION

The tray below the drum simplifies sample collection after the test.



Drum cover and connections



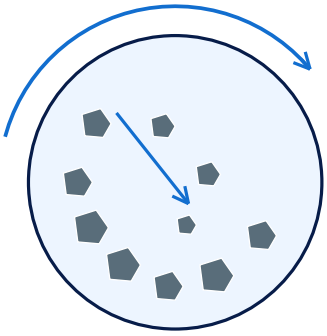
Sample collection tray and lower frame

LT-M0075

Micum Test and M40 / M10 Indices

Coke mechanical strength • Controlled tumbling • Sieving and weighing

Impact and Abrasion



25 rpm

DRUM ROTATION SPEED

Sample Material

Coke, >20 mm

Micum Test

100 revolutions

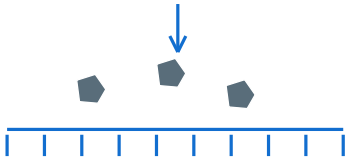
Digital Counter

End-of-programme stop

During the Micum test, the prepared coke sample undergoes 100 drum revolutions. The sample is then sieved and each fraction weighed. M40 and M10 express fragmentation and abrasion behaviour as mass fractions.

M40

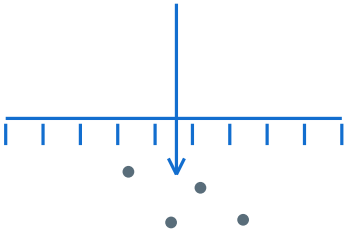
40 mm sieve



Mass fraction retained on the 40 mm sieve (%).

M10

10 mm sieve



Mass fraction of fine material passing the 10 mm sieve (%).

Technical Data and Test Workflow

LT-M0075 • Drum, digital counter, geared motor and electrical supply

Technical Specification	Value
Product Code	LT-M0075
ISO Reference	ISO 556:2020
TS Reference	TS 1611 (March 1986)
Sample Material / Size	Coke / >20 mm
Nominal Drum Volume	780 L
Internal Drum Dimensions	Ø100 × 100 cm
Drum Rotation Speed	25 rpm
Revolution Count Control	Adjustable via digital counter
Automatic Stop	At the preset revolution count
Motor Power	1.5 HP
Motor Speed	1400 rpm
Drive System	Geared drive
Approximate Weight	950 kg
Power Supply	380 V, 50-60 Hz, 3 phases

Running the Test

01

Prepare Sample

Prepare a coke sample for the selected test method.

02

Load and Set

Load the drum, close the cover and select revolutions.

03

Tumble Sample

Start the drive; the counter stops it at the target.

04

Sieve and Weigh

Collect and separate fractions; calculate the indices.

Product Page | liyatest.com.tr/en/urun/micum-drum-test-apparatus/