NDA VACU

NON DISPERSIBLE MATTER (NDM)





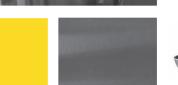


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STANDARD TEST METHOD FOR NON-DISPERSIBLE MATTER BY MECHANICAL FLUSHING (NDM)

FUNCTIONAL PRINCIPLE

The process provides information of the content of coarse impurities or constituents which are insoluble in water, such as ceramic constituents, metals or heavily compacted pigments. A sample is mechanically flushed with water through a wire-mesh screen of a specific size until all that remains is a non-dispersible matter of the sampling.

This non-dispersible matter is dried, weighed and the amount of residues is expressed as mg/kg (ppm) of the original sample.

This method delivers rapid results, which can be compared with the stipulated limit values in quality control. In some cases, the impurities need to be categorised under an optical microscope on the basis of their colour, form and surface quality. Magnetic constituents can be detected with bar magnets. Further qualitative analysis can be conducted to establish the origin of impurities (e.g. X-ray microanalysis (XMA) or energy dispersive X-ray microanalysis (EDX)).

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KEY FEATURES

Determination of non-dispersible matter after mechanical water flushing of for example regular untreated carbon blacks (may not be applicable to oil-treated carbon blacks because the oil would prevent proper wetting of the black by water)

General procedure for testing pigments and fillers

Functional principle according to ASTM D 7724

- High-quality, reliable and durable technology
- Easy handling, servicing and evaluation
- Fully-automatic operating program
- Collecting tank 50liter with integrated water pump (fully automatic)
- Handy screens (diameter 105 mm)
- Easy sieve entry and removal
- Absolute reproducibility of screening results
- No dust forming due to sealed construction
- Glass vessel for observation of process
- Automatic lifting system for vessel lid
- Low noise level

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NDA VACU **CHARACTERISTICS**

PERFORMANCE FEATURES

Range of application: Input materials: Number of fractions: Charge / solid matter amount: Wet screening, classification, elutriation, screen section Powder, suspension and mud Standard 1 (max. 3) From 100g to 800g in one input step

DEVICE SPECIFICATIONS*

Case / Analysis sample vessel / lid: **Engine**: Power supply:

Height: Width: Depth: Weight approx.:

CONNECTIONS

Water supply: Drainage connection: Power supply:

TEST SIEVE SPECIFICATIONS*

Screen ring: Diameter: Sieve material: Standard mesh sizes: Stainless steel 24 V DC 10 rpm 110 V or 230 V 50/60 Hz 1.800 mm 950 mm 900 mm 150 kg

Water filter: Pressure reducing valve: Water pressure (set): Flow meter: Total flow: Noise parameters: Emission value at work place: L pA eq = 68dB (A)

60 micron Ms, adjustable 2-5 bar 3bar / 4bar 0-1200L/h 820 l/h at 3bar / 1020 l/h at 4bar DIN 45635-01

Clean water at least DN ¹/₂" at 3 or 4 bar, recommended 17°C At least DN ³/₄" (maximum 6m long, maximum height 2 m) $230 V \sim 50 Hz$

Plastic or stainless steel 105mm Stainless steel, Test sieve according ISO 565/DIN ISO 3310-1/DIN 9044 ISO 4783 0,040mm-0,200mm (other mesh sizes on request)

*Subject to modification







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