Task:

Application field: Environment

Material: Electronic scraps, with high content of copper

Feed size: 0-15 mm

Feed quantity: 70 g (per sample)

Material specification(s): abrasive, ductile

Customer requirement(s): < 100 µm acc. To RoHS

Subsequent analysis: Micro Wave Digestion and ICP Inductively Coupled Plasma

Solution:

Selected instrument(s): Vibratory Disc Mill RS 200

Configuration(s): Grinding set RS 200 hardened steel 250 ml

Parameter(s): Revolution speed 1400 rpm

Time: 5 min. (per batch)

Achieved result(s): predominantly < 200 µm without ductile metal parts, enough for acid digestion and following ICP

Remark(s): After grinding the ductile metal parts > 200 µm have been separated by sieving

Recommendation: For sample preparation of different electronic scraps the Vibratry Disc Mill RS 200 is suitable under the above mentioned conditions.
Pictures of the sample

**Fig. 1:** Original sample

**Fig. 2:** Original sample

**Fig. 3:** Ground sample after 5 min. in RS 200

**Fig. 4:** on the left hand side, the separated ductile metal parts > 200 µm.

The application report is based solely on the processing of the available sample material in the indicated amount. No legal claims shall be derived from this test report. Subject to technical modification and errors.

© Retsch GmbH - www.retsch.com - lab@retsch.com