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WEEELABEX Organisation - OFFICIAL STATEMENT	
Issue ID:	**2017_001**
Issue Category:	CFA performance test – STEP 2 Laboratory analysis
Issue Name:	**Determination of water content in PU fraction from the CFA treatment process**
Issue Description:	**For the correct evaluation of compliance with the VFC/VHC recovery target values defined in the EN 50574-2 and CLC/TS 50574-2 for the STEP 2 CFA treatment process, it is essential to correctly determine the real content of "pure" PU matrix in the output PU fraction.** **In general, PU fractions obtained from CFA treatment processes do contain foreign matters that are not considered as PU matrix. That is why the CLC/TS 50574-2 requires to perform a specific analysis to determine the content of those foreign matters in PU fraction.** **However, based on results of a project that was run by the WEEELABEX Office, PU fractions do contain also water besides the foreign matters (the PROJECT 2017_001 was carried out in cooperation with the University of Chemistry and Technology in Prague and with the accredited laboratory ALS Czech Republic, s.r.o.).** **That is why it is essential to determine the water content in the PU fraction as well. Any specific method is not defined in the CLC/TS 50574-2 for this kind of analysis.** **How the water content shall be determined in the PU fraction within the WEEELABEX CFA performance tests?**

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WEEELABEX Organisation Statement	The **WEEELABEX CFA specialist auditors are required to** (when carrying out the CFA performance test within the WEEELABEX CV process): - Let **determine the water content in PU fraction** by an **accredited laboratory** using the analytical method "**Thermogravimetric analysis (drying to constant weigh) - Determination of dry matter and water content on a mass basis per ISO 11465:1993**" with the following specifications: • Drying temperature = max. 105 °C (to ensure than only water is released from the sample); • Drying time = "to constant weigh", however at least 24 hours; • Sample homogenisation and reduction under 0,3 mm; • At least three test portions shall be analysed by the laboratory (due to a possible inhomogeneity of samples); • The laboratory is requested to express the result as the average of the three sub-results; • The laboratory is requested to specify the uncertainty of the result (in %). **Note:** If an alternative method of sample preparation or analytical method is to be used (e.g. "EN 14346 Characterization of waste - Calculation of dry matter by determination of dry residue or water content"), the laboratory shall validate the alternative method in accordance with clause 5.4.5 of ISO/IEC 17025:2005. - Take **into consideration** the **water content** in PU fraction for the **calculation and evaluation of the CFA performance test results – the water content shall be deducted from the original weight of the PU fraction (in addition to other foreign matters).** - Take **into consideration** the **uncertainty of the analysis result** as per the defined WEEELABEX rules (when available).
Date of Issue / Date of revision:	**21st February 2017**
Come into effect:	**For each on-going and new Conformity Verification process**
Status of the Statement:	**Final Statement - defrev_01**