

WEELABEX Organisation - OFFICIAL STATEMENT	
Issue ID:	2017_001
Issue Category:	TEE specialist performance test – STEP 2 Laboratory analysis
Issue Name:	Determination of water content in PU fraction from the TEE treatment process
Issue Description:	<p>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 TEE treatment process, it is essential to correctly <u>determine the real content of “pure” PU matrix in the output PU fraction.</u></p> <p>In general, PU fractions obtained from TEE 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.</p> <p>However, based on results of a project that was run by the WEELABEX 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.).</p> <p>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.</p> <p>How the water content shall be determined in the PU fraction within the WEELABEX TEE performance tests?</p>

<p>WEELABEX Organisation Statement</p>	<p>The WEELABEX CFA specialist auditors are required to (when carrying out the TEE specialist performance test within the WEELABEX CV process):</p> <ul style="list-style-type: none"> - 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: <ul style="list-style-type: none"> • 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 %). <p>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.</p> <ul style="list-style-type: none"> - Take into consideration the water content in PU fraction for the calculation and evaluation of the TEE 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 WEELABEX rules (when available).
<p>Date of Issue / Date of revision:</p>	<p>21st February 2017 / 1st March 2021 (defrev_02)</p>
<p>Come into effect:</p>	<p>For each on-going and new Conformity Verification process</p>
<p>Status of the Statement:</p>	<p>Final Statement - defrev_02</p>