



**IEC 60950-22, 1<sup>st</sup> ED.**  
**TESTING AND MEASURING EQUIPMENT/ALLOWED SUBCONTRACTING**  
**(approved on 2007-05-24 by 44<sup>th</sup> CTL)**

R=Required by Lab

S=May be subcontracted

Clause	Measurement/testing	Testing / measuring equipment / material needed	Subcontracting
8.2	Resistance to ultra-violet radiation	Tensile strength, ISO 527 Flexural strength, ISO 178 Charpy impact, ISO 179 Izod impact, ISO 180 Tensile impact, ISO 8256	S
8.3	Resistance to corrosion, water borne contaminants	Salt spray test apparatus, or Test equipment of IEC 61587-1	S S
9.1	Protection from moisture	IP X3 to X6 water test apparatus	R
9.3	Protection from excessive dust	IP 5X/6X dust test apparatus	R
10.2	Impact test	Environmental test chamber capable of testing to -33 °C	R
11	Concentration of hydrogen gas	Hydrogen gas analyzer	S
Annex A	Water- sulphur dioxide test	Water- sulphur dioxide test chamber	S
Annex B	Water spray test	Water spray test apparatus (alternative to IPX4)	S
Annex C	Ultraviolet light conditioning test	Ultraviolet light test apparatus	S
Annex D.2	Tensile strength and elongation tests	Tensile strength test apparatus	S



Clause	Measurement/testing	Testing / measuring equipment / material needed	Subcontracting
Annex D.3	Compression test	Cylindrical weight for 69 kPa Air oven Environmental test chamber capable of testing to –30 °C 1,35 kg impact hammer apparatus Clear spruce wood pieces	S
Annex D.4	Oil immersion test	Oil immersion test equipment per ISO 18173 or ASTM D471-98	S

Note: The presence of equipment alone does not indicate a satisfactory situation. Assessors must evaluate the equipment design, calibration, uncertainty and documentation to ensure compliance with the directions of the standard. The requirements of ISO Guide 25 regarding validation are applicable, as the tests of this standard are not standardised tests.