Test Report -Products



Report No .: Client: Contact Information: Duu varla marra

168327717a 001

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Buyer's name:	
Test item(s):	159 materials
Identification/ Model No(s):	BATTERY ANALYSER 12V/24V OBAG900
Condition at delivery:	Test item complete and undamaged.
Sample Receiving date:	2021-07-28, 2021-08-01
Testing Period:	2021-07-29 to 2021-08-16
Place of testing:	Chemical laboratory Shenzhen

Test Specification:

Test result:

1. Cadmium, Lead, Chromium (VI), Mercury, Polybrominated biphenyls (PBB) and Polybrominated diphenyl ethers (PBDE), ROHS Phthalates (BBP, DBP, DEHP, DIBP) According to RoHS(recast): Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment, 2011/65/EU Annex II and its amendment Directive (EU) 2015/863

Other information:

Country of Origin: China Sales Destination: Europe, USA PASS

For and on behalf of TÜV Rheinland (Shenzhen) Co., Ltd.

Jasmine Zhas

2021-08-27

Jasmine Zhao / Assistant Project Manager

Date

Name/Position

Sample information is provided by customer. Test result is drawn according to the kind and extent of tests performed.

This test report relates to the above mentioned test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any safety mark on this or similar products.

'Decision Rule" document announced in our website (https://www.tuv.com/landingpage/en/qm-gcn/) describes the statement of conformity and its rule of enforcement for test results are applicable throughout this test report.



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Material List:

Item:

BATTERY ANALYSER 12V/24V

OBAG900

Material No.	Material	Color	Location
M001	Plastic	Grey	Refer to photo
M002	Plastic	Black	Refer to photo
M003	Plastic	Black	Refer to photo
M004	Plastic	Black	Refer to photo
M005	Metal	Silvery	Refer to photo
M006	Metal	Silvery	Refer to photo
M007	Plastic	Red	Refer to photo
M008	Metal	Silvery	Refer to photo
M009	Plastic	Black	Refer to photo
M010	Plastic	Black	Refer to photo
M011	Metal	Silvery	Refer to photo
M012	Plastic	Yellow	Refer to photo
M013	Metal	Silvery	Refer to photo
M014	Plastic	Red	Refer to photo
M015	Plastic	Green	Refer to photo
M016	Plastic	Black	Refer to photo
M017	Plastic	Translucent black	Refer to photo
M018	Plastic	Black	Refer to photo
M019	Plastic	Blue	Refer to photo
M020	Plastic	Black	Refer to photo
M021	Metal	Golden	Refer to photo
M022	Metal	Golden	Refer to photo
M023	Plastic + printing + adhesive	Black/ red/ white	Refer to photo
M024	Plastic	Transparent	Refer to photo
M025	Metal	Silvery	Refer to photo
M026	Plastic	White	Refer to photo
M027	Plastic	Black	Refer to photo
M028	Metal	Silvery	Refer to photo



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M029	Plastic	Black	Refer to photo
M030	Metal	Silvery	Refer to photo
M031	Plastic	Transparent	Refer to photo
M032	Coating	Black/ white/ orange	Refer to photo
M033	Plastic	Black	Refer to photo
M034	Metal	Silvery	Refer to photo
M035	PCB board	Green	Refer to photo
M036	Plastic + adhesive	Transparent	Refer to photo
M037	Metal	Silvery	Refer to photo
M038	PCB board	Green	Refer to photo
M039	Plastic	Black	Refer to photo
M040	Metal	Silvery	Refer to photo
M041	Plastic	Red	Refer to photo
M042	Plastic	White	Refer to photo
M043	Plastic	Yellow	Refer to photo
M044	Plastic	White	Refer to photo
M045	Plastic	Red	Refer to photo
M046	Glue	White	Refer to photo
M047	Electronic components	Silvery	Refer to photo
M048	Electronic components	Brown	Refer to photo
M049	Electronic components	Black	Refer to photo
M050	Electronic components	Black	Refer to photo
M051	Electronic components	Black	Refer to photo
M052	Electronic components	Black	Refer to photo
M053	Electronic components	Transparent/ red	Refer to photo
M054	Electronic components	Black	Refer to photo
M055	Electronic components	Black	Refer to photo
M056	Electronic components	Black	Refer to photo
M057	Plastic + printing + adhesive	White/ black	Refer to photo
M058	Solder	Silvery	Refer to photo
M059	Electronic components	Blue	Refer to photo
M060	Electronic components	Brown	Refer to photo



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M061	Plastic	Black	Refer to photo
M062	Plastic	Beige	Refer to photo
M063	Metal	Silvery	Refer to photo
M064	PCB board	Green	Refer to photo
M065	Magnet	Dark grey	Refer to photo
M066	Metal	Coppery	Refer to photo
M067	Electronic components	Black	Refer to photo
M068	Electronic components	Black	Refer to photo
M069	Electronic components	Black	Refer to photo
M070	Electronic components	Black	Refer to photo
M071	Electronic components	Black	Refer to photo
M072	Electronic components	Black	Refer to photo
M073	Electronic components	Black	Refer to photo
M074	Metal	Silvery	Refer to photo
M075	Electronic components	Black	Refer to photo
M076	Electronic components	Black	Refer to photo
M077	Electronic components	Black	Refer to photo
M078	Electronic components	Blue	Refer to photo
M079	Electronic components	Black	Refer to photo
M080	Electronic components	Black	Refer to photo
M081	Plastic	Green	Refer to photo
M082	Metal	Silvery	Refer to photo
M083	Plastic	Black	Refer to photo
M084	Metal	Golden/ silvery	Refer to photo
M085	Electronic components	Silvery	Refer to photo
M086	Metal	Silvery	Refer to photo
M087	Metal	Silvery	Refer to photo
M088	Plastic	Grey	Refer to photo
M089	Metal + plating	Silvery/ golden	Refer to photo
M090	Plastic	Black	Refer to photo
M091	Metal	Silvery	Refer to photo
M092	Magnet	Black	Refer to photo



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M093	Glue	White	Refer to photo
M094	Metal	Silvery	Refer to photo
M095	Metal	Coppery	Refer to photo
M096	Metal	Silvery	Refer to photo
M097	Glue	Black	Refer to photo
M098	PCB board	Green	Refer to photo
M099	Plastic	Black/ white	Refer to photo
M100	Metal	Silvery	Refer to photo
M101	Plastic	Black	Refer to photo
M102	Ceramic	White	Refer to photo
M103	Plastic	Black	Refer to photo
M104	Metal	Golden	Refer to photo
M105	Plastic	Yellow	Refer to photo
M106	PCB board	Green	Refer to photo
M107	Plastic	Transparent red	Refer to photo
M108	Plastic	Transparent green	Refer to photo
M109	Solder	Silvery	Refer to photo
M110	Plastic	Beige	Refer to photo
M111	PCB board	Transparent brown	Refer to photo
M112	Metal	Silvery	Refer to photo
M113	Metal	Silvery	Refer to photo
M114	Plastic	Black	Refer to photo
M115	Plastic	White	Refer to photo
M116	Metal	Silvery	Refer to photo
M117	Oil	White	Refer to photo
M118	Ceramic	White/ multicolor	Refer to photo
M119	Metal	Silvery	Refer to photo
M120	Glue	Black	Refer to photo
M121	Glue	Transparent	Refer to photo
M122	PCB board	Brown	Refer to photo
M123	Plastic + adhesive	Black	Refer to photo
M124	Electronic components	Black	Refer to photo



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M125	Metal	Silvery	Refer to photo
M126	Metal	Coppery	Refer to photo
M127	Metal	Coppery	Refer to photo
M128	Metal	Silvery	Refer to photo
M129	Metal	Silvery	Refer to photo
M130	Plastic	Beige	Refer to photo
M131	Metal	Coppery	Refer to photo
M132	Magnet	Black	Refer to photo
M133	Plastic	White	Refer to photo
M134	PCB board	Orange	Refer to photo
M135	Metal	Silvery	Refer to photo
M136	Electronic components	White	Refer to photo
M137	PCB board	White	Refer to photo
M138	Plastic	Transparent	Refer to photo
M139	Glass	Transparent	Refer to photo
M140	Plastic + adhesive	Black	Refer to photo
M141	Plastic	Transparent	Refer to photo
M142	Plastic	White	Refer to photo
M143	Plastic	Translucent	Refer to photo
M144	Plastic	White	Refer to photo
M145	Plastic	White	Refer to photo
M146	Plastic	Transparent	Refer to photo
M147	Plastic + adhesive	Black	Refer to photo
M148	Plastic	Black	Refer to photo
M149	Paper	White	Refer to photo
M150	Metal	Silvery	Refer to photo
M151	Metal + plating	Silvery/ black	Refer to photo
M152	Plastic + printing + adhesive	Black/ white/ multicolor	Refer to photo
M153	Plastic	Black	Refer to photo
M154	Plastic	Yellow	Refer to photo
M155	PCB board	Golden/ black	Refer to photo



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M156	M156 Plastic + printing + Black/ white/ adhesive		Refer to photo
M157	Plastic	Transparent	Refer to photo
M158	Electronic components	Black	Refer to photo
M159	Metal	Silvery	Refer to photo



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1.Screening Test by XRF spectroscopy

Test Method: Cadmium, Lead, Mercury, Chromium, Bromine -- With reference to IEC 62321-3-1:2013

Test Result:

Material No.	Cd	Cr	Pb	Hg	Br
M001	< RL	< RL	< RL	< RL	< RL
M002	< RL	< RL	< RL	< RL	< RL
M003	< RL	< RL	< RL	< RL	< RL
M004	< RL	< RL	< RL	< RL	< RL
M005	< RL	< RL	< RL	< RL	n.a.
M006	< RL	d(*3)	< RL	< RL	n.a.
M007	< RL	< RL	< RL	< RL	< RL
M008	< RL	< RL	< RL	< RL	n.a.
M009	< RL	< RL	< RL	< RL	< RL
M010	< RL	< RL	< RL	< RL	< RL
M011	< RL	< RL	< RL	< RL	n.a.
M012	< RL	< RL	< RL	< RL	< RL
M013	< RL	< RL	< RL	< RL	n.a.
M014	< RL	< RL	< RL	< RL	< RL
M015	< RL	< RL	< RL	< RL	< RL
M016	< RL	< RL	< RL	< RL	< RL
M017	< RL	< RL	< RL	< RL	< RL
M018	< RL	< RL	< RL	< RL	< RL
M019	< RL	< RL	< RL	< RL	< RL
M020	< RL	< RL	< RL	< RL	< RL
M021	< RL	< RL	< RL	< RL	n.a.
M022	< RL	< RL	d(*1)	< RL	n.a.
M023	< RL	< RL	< RL	< RL	< RL
M024	< RL	< RL	< RL	< RL	< RL
M025	d(*1)	< RL	d(*1)	< RL	n.a.
M026	< RL	< RL	< RL	< RL	< RL
M027	< RL	< RL	< RL	< RL	< RL
M028	d(*1)	< RL	d(*1)	< RL	n.a.
M029	< RL	< RL	< RL	< RL	< RL
M030	< RL	d(*3)	< RL	< RL	n.a.
M031	< RL	< RL	< RL	< RL	< RL
M032	< RL	< RL	< RL	< RL	< RL
M033	< RL	< RL	< RL	< RL	< RL
M034	< RL	< RL	< RL	< RL	n.a.
M035	< RL	< RL	< RL	< RL	< RL
M036	< RL	< RL	< RL	< RL	< RL
M037	< RL	d(*3)	< RL	< RL	n.a.



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M038	< RL	< RL	< RL	< RL	d(*1)
M039	< RL	< RL	< RL	< RL	< RL
M040	< RL	< RL	< RL	< RL	n.a.
M041	< RL	< RL	< RL	< RL	< RL
M042	< RL	< RL	< RL	< RL	< RL
M043	< RL	< RL	< RL	< RL	< RL
M044	< RL	< RL	< RL	< RL	< RL
M045	< RL	< RL	< RL	< RL	< RL
M046	< RL	< RL	< RL	< RL	< RL
M047	< RL	< RL	< RL	< RL	n.a.
M048	< RL	< RL	< RL	< RL	< RL
M049	< RL	< RL	< RL	< RL	d(*1)
M050	< RL	< RL	< RL	< RL	< RL
M051	< RL	< RL	< RL	< RL	< RL
M052	< RL	< RL	< RL	< RL	d(*1)
M053	< RL	< RL	< RL	< RL	n.a.
M054	< RL	d(*1)	< RL	< RL	< RL
M055	< RL	< RL	< RL	< RL	< RL
M056	< RL	< RL	< RL	< RL	< RL
M057	< RL	< RL	< RL	< RL	< RL
M058	< RL	< RL	< RL	< RL	n.a.
M059	< RL	< RL	< RL	< RL	< RL
M060	< RL	< RL	< RL	< RL	< RL
M061	< RL	< RL	< RL	< RL	< RL
M062	< RL	< RL	< RL	< RL	< RL
M063	< RL	< RL	< RL	< RL	n.a.
M064	< RL	< RL	< RL	< RL	d(*1)
M065	< RL	< RL	< RL	< RL	n.a.
M066	< RL	< RL	< RL	< RL	n.a.
M067	< RL	< RL	< RL	< RL	< RL
M068	< RL	< RL	< RL	< RL	< RL
M069	< RL	< RL	< RL	< RL	< RL
M070	< RL	< RL	< RL	< RL	< RL
M071	< RL	< RL	< RL	< RL	< RL
M072	< RL	< RL	< RL	< RL	< RL
M073	< RL	< RL	< RL	< RL	< RL
M074	< RL	< RL	d(*1)	< RL	n.a.
M075	< RL	< RL	< RL	< RL	d(*1)
M076	< RL	< RL	< RL	< RL	d(*1)
M077	< RL	< RL	< RL	< RL	n.a.
M078	< RL	< RL	< RL	< RL	< RL
M079	< RL	< RL	< RL	< RL	< RL
M080	< RL	< RL	< RL	< RL	< RL



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M081	< RL	< RL	< RL	< RL	< RL
M082	< RL	d(*3)	< RL	< RL	n.a.
M083	< RL	< RL	< RL	< RL	d(*1)
M084	< RL	< RL	< RL	< RL	n.a.
M085	< RL	< RL	< RL	< RL	n.a.
M086	< RL	d(*3)	< RL	< RL	n.a.
M087	< RL	< RL	< RL	< RL	n.a.
M088	< RL	< RL	< RL	< RL	< RL
M089	< RL	< RL	< RL	< RL	n.a.
M090	< RL	< RL	< RL	< RL	d(*1)
M091	< RL	< RL	< RL	< RL	n.a.
M092	< RL	< RL	< RL	< RL	n.a.
M093	< RL	< RL	< RL	< RL	< RL
M094	< RL	< RL	< RL	< RL	n.a.
M095	< RL	< RL	< RL	< RL	n.a.
M096	< RL	< RL	< RL	< RL	n.a.
M097	< RL	< RL	< RL	< RL	< RL
M098	< RL	< RL	< RL	< RL	d(*1)
M099	< RL	< RL	< RL	< RL	< RL
M100	< RL	< RL	< RL	< RL	n.a.
M101	< RL	< RL	< RL	< RL	< RL
M102	< RL	< RL	< RL	< RL	< RL
M103	< RL	< RL	< RL	< RL	< RL
M104	< RL	< RL	< RL	< RL	n.a.
M105	< RL	< RL	< RL	< RL	d(*1)
M106	< RL	< RL	< RL	< RL	d(*1)
M107	< RL	< RL	< RL	< RL	d(*1)
M108	< RL	< RL	< RL	< RL	d(*1)
M109	< RL	< RL	< RL	< RL	n.a.
M110	< RL	< RL	< RL	< RL	d(*1)
M111	< RL	< RL	< RL	< RL	< RL
M112	< RL	< RL	< RL	< RL	n.a.
M113	< RL	d(*3)	< RL	< RL	n.a.
M114	< RL	< RL	< RL	< RL	< RL
M115	< RL	< RL	< RL	< RL	< RL
M116	< RL	d(*3)	< RL	< RL	n.a.
M117	< RL	< RL	< RL	< RL	< RL
M118	< RL	< RL	< RL	< RL	< RL
M119	< RL	d(*3)	< RL	< RL	n.a.
M120	< RL	< RL	< RL	< RL	< RL
M121	< RL	< RL	< RL	< RL	< RL
M122	< RL	< RL	< RL	< RL	d(*1)
M123	< RL	< RL	< RL	< RL	< RL



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$\begin{array}{ c c c c c c c c c c c c c c c c c c c$						
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	M124	< RL	< RL	< RL	< RL	< RL
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	M125	< RL	d(*3)	< RL	< RL	n.a.
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	M126	< RL	< RL	< RL	< RL	n.a.
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	M127	< RL	< RL	< RL	< RL	n.a.
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	M128	< RL	< RL	< RL	< RL	n.a.
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	M129	< RL	< RL	< RL	< RL	n.a.
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	M130	< RL	< RL	< RL	< RL	< RL
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	M131	< RL	< RL	< RL	< RL	n.a.
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	M132	< RL	< RL	< RL	< RL	n.a.
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	M133	< RL	< RL	< RL	< RL	< RL
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	M134	< RL	< RL	< RL	< RL	< RL
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	M135	< RL	d(*3)	< RL	< RL	n.a.
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	M136	< RL	< RL	< RL	< RL	< RL
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	M137	< RL	< RL	< RL	< RL	< RL
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	M138	< RL	< RL	< RL	< RL	< RL
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	M139	< RL	< RL	< RL	< RL	n.a.
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	M140	< RL	< RL	< RL	< RL	< RL
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	M141	< RL	< RL	< RL	< RL	< RL
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	M142	< RL	< RL	< RL	< RL	< RL
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	M143	< RL	< RL	< RL	< RL	< RL
$\begin{array}{ c c c c c c c } \hline M146 & < RL \\ \hline M147 & < RL \\ \hline M148 & < RL \\ \hline M149 & < RL \\ \hline M150 & < RL \\ \hline M150 & < RL & n.a. \\ \hline M151 & < RL & d(*3) & < RL & < RL & < RL & n.a. \\ \hline M152 & < RL \\ \hline M153 & < RL \\ \hline M154 & < RL \\ \hline M155 & < RL \\ \hline M156 & < RL \\ \hline M157 & < RL \\ \hline M158 & < RL \\ \hline M158 & < RL \\ \hline M158 & < RL \\ \hline M158 & < RL \\ \hline M158 & < RL \\ \hline M158 & < RL \\ \hline M158 & < RL \\ \hline M158 & < RL & < (*1) \\ \hline \end{array}$	M144	< RL	< RL	< RL	< RL	< RL
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	M145	< RL	< RL	< RL	< RL	< RL
$\begin{array}{ c c c c c c c c } \hline M148 & < RL \\ \hline M149 & < RL \\ \hline M150 & < RL & n.a. \\ \hline M151 & < RL & d(*3) & < RL & < RL & n.a. \\ \hline M152 & < RL & n.a. \\ \hline M153 & < RL \\ \hline M154 & < RL \\ \hline M155 & < RL \\ \hline M156 & < RL \\ \hline M157 & < RL \\ \hline M158 & < RL \\ \hline M158 & < RL \\ \hline M158 & < RL \\ \hline \end{array}$	M146	< RL	< RL	< RL	< RL	< RL
$\begin{array}{ c c c c c c c } \hline M149 & < RL \\ \hline M150 & < RL & n.a. \\ \hline M151 & < RL & d(*3) & < RL & < RL & n.a. \\ \hline M152 & < RL & n.a. \\ \hline M153 & < RL \\ \hline M154 & < RL \\ \hline M155 & < RL \\ \hline M156 & < RL \\ \hline M157 & < RL \\ \hline M158 & < RL \\ \hline \end{array}$	M147	< RL	< RL	< RL	< RL	< RL
$\begin{array}{ c c c c c c c }\hline M150 & < RL & n.a. \\ \hline M151 & < RL & d(*3) & < RL & < RL & n.a. \\ \hline M151 & < RL & < RL & < RL & < RL & n.a. \\ \hline M152 & < RL \\ \hline M153 & < RL \\ \hline M154 & < RL \\ \hline M155 & < RL \\ \hline M156 & < RL \\ \hline M157 & < RL \\ \hline M158 & < RL \\ \hline \end{array}$	M148	< RL	< RL	< RL	< RL	< RL
$\begin{array}{ c c c c c c c c } \hline M151 & < RL & d(*3) & < RL & < RL & n.a. \\ \hline M152 & < RL \\ \hline M153 & < RL \\ \hline M154 & < RL \\ \hline M155 & < RL \\ \hline M156 & < RL \\ \hline M157 & < RL \\ \hline M158 & < RL \\ \hline M158 & < RL \\ \hline \end{array}$	M149	< RL	< RL	< RL	< RL	< RL
M152 < RL < RL <th< td=""><td>M150</td><td>< RL</td><td>< RL</td><td>< RL</td><td>< RL</td><td>n.a.</td></th<>	M150	< RL	< RL	< RL	< RL	n.a.
M153< RL< RL< RL< RL< RLM154< RL	M151	< RL	d(*3)	< RL	< RL	n.a.
M154 < RL < RL <th< td=""><td>M152</td><td>< RL</td><td>< RL</td><td>< RL</td><td>< RL</td><td>< RL</td></th<>	M152	< RL	< RL	< RL	< RL	< RL
M155 < RL < RL <th< td=""><td>M153</td><td>< RL</td><td>< RL</td><td>< RL</td><td>< RL</td><td>< RL</td></th<>	M153	< RL	< RL	< RL	< RL	< RL
M156 < RL < RL < RL < RL < RL M157 < RL	M154	< RL	< RL	< RL	< RL	< RL
M157 < RL < RL < RL < RL < RL M158 < RL	M155	< RL	< RL	< RL	< RL	< RL
M158 < RL < RL < RL < RL (*1)	M156	< RL	< RL	< RL	< RL	< RL
	M157	< RL	< RL	< RL	< RL	< RL
M159 < RL < RL < RL < RL n.a.	M158	< RL	< RL	< RL	< RL	d(*1)
	M159	< RL	< RL	< RL	< RL	n.a.



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Abbreviation: Pb = Lead

Cd = Cadmium Hg = Mercury Cr = Chromium Br = Bromine n.a. = not applicable < = less than RL = Reporting Limit d.= detected

Remark:

- (*1) The screening result was found in the inconclusive region, thus the further wet chemistry tests are suggested.
- (*3) For metal sample, the Chromium (VI) content has been confirmed with reference to IEC 62321-7-1:2015.
- (*7) Component(s)/ materials(s) with an area of less than 2mm x2 mm will not be selected for testing according to RoHS Directive 2011/65/EU due to technical reason. For the test sample does not have detail materials information provided by client, visually identical materials (e.g. wire insulation, solder points, etc.) will be considered as the same material. Solder points on a printing circuit board will be examined several times based on optical anomalies or discoloration of the solder point(s) unless the solder point(s) is obviously generated automatically during production. All other materials will be sampled and tested at one test point representatively.
- (*8) The Chromium (Cr) and Bromine (Br) in the above result table indicate the total chromium and total bromine by means of XRF screening.
 PBBs, or PBDEs content shall be further confirmed with reference to IEC 62321-6:2015.
 Chromium (VI) shall be further confirmed with reference to IEC 62321-7-1:2015, IEC 62321-7-2:2017 or EN ISO 17075-1:2017.

	Concentration (%)							
Material	Cd	Cr	Pb	Hg	Br			
Polymeric	P≤0.006 <x≤0.014<f< th=""><th>P≤0.064<x< th=""><th>P≤0.067<x≤0.133<f< th=""><th>P≤0.066<x≤0.134<f< th=""><th>P≤0.029<x< th=""></x<></th></x≤0.134<f<></th></x≤0.133<f<></th></x<></th></x≤0.014<f<>	P≤0.064 <x< th=""><th>P≤0.067<x≤0.133<f< th=""><th>P≤0.066<x≤0.134<f< th=""><th>P≤0.029<x< th=""></x<></th></x≤0.134<f<></th></x≤0.133<f<></th></x<>	P≤0.067 <x≤0.133<f< th=""><th>P≤0.066<x≤0.134<f< th=""><th>P≤0.029<x< th=""></x<></th></x≤0.134<f<></th></x≤0.133<f<>	P≤0.066 <x≤0.134<f< th=""><th>P≤0.029<x< th=""></x<></th></x≤0.134<f<>	P≤0.029 <x< th=""></x<>			
Metallic	P≤0.006 <x≤0.014<f< th=""><th>P≤0.064<x< th=""><th>P≤0.067<x≤0.133<f< th=""><th>P≤0.066<x≤0.134<f< th=""><th>NA</th></x≤0.134<f<></th></x≤0.133<f<></th></x<></th></x≤0.014<f<>	P≤0.064 <x< th=""><th>P≤0.067<x≤0.133<f< th=""><th>P≤0.066<x≤0.134<f< th=""><th>NA</th></x≤0.134<f<></th></x≤0.133<f<></th></x<>	P≤0.067 <x≤0.133<f< th=""><th>P≤0.066<x≤0.134<f< th=""><th>NA</th></x≤0.134<f<></th></x≤0.133<f<>	P≤0.066 <x≤0.134<f< th=""><th>NA</th></x≤0.134<f<>	NA			
Electronic Components	P≤0.004 <x≤0.016<f< th=""><th>P≤0.044<x< th=""><th>P≤0.047<x≤0.153<f< th=""><th>P≤0.046<x≤0.154<f< th=""><th>P≤0.024<x< th=""></x<></th></x≤0.154<f<></th></x≤0.153<f<></th></x<></th></x≤0.016<f<>	P≤0.044 <x< th=""><th>P≤0.047<x≤0.153<f< th=""><th>P≤0.046<x≤0.154<f< th=""><th>P≤0.024<x< th=""></x<></th></x≤0.154<f<></th></x≤0.153<f<></th></x<>	P≤0.047 <x≤0.153<f< th=""><th>P≤0.046<x≤0.154<f< th=""><th>P≤0.024<x< th=""></x<></th></x≤0.154<f<></th></x≤0.153<f<>	P≤0.046 <x≤0.154<f< th=""><th>P≤0.024<x< th=""></x<></th></x≤0.154<f<>	P≤0.024 <x< th=""></x<>			

XRF Screening limits for different matrices :



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Cadmium, Lead, Chromium (VI), Mercury, Polybrominated biphenyls (PBB) and Polybrominated diphenyl ethers (PBDE)

Test Method: Total Cadmium, Lead, Mercury, Chromium

- Ref. to IEC 62321-4:2013+AMD1:2017 and IEC 62321-5:2013

Chromium (VI)

- For Metal material Ref. to IEC 62321-7-1:2015
- For Plastic or Electronic material Ref. to IEC 62321-7-2:2017
- For Leather material Ref. to EN ISO 17075-1:2017

PBBs, PBDEs - Ref. to IEC 62321-6:2015

Test Result:

	Cd	Cr(VI)	Pb	Hg	PBBs (*)	PBDEs (*)
Maximum Permissible Limit (%)	0.01	0.1	0.1	0.1	0.1	0.1

	(%)							
Material No.	Cd	Cr^	Pb	Hg	PBBs (*)	PBDEs (*)		
Waterial NO.	RL (%)							
	0.001	0.001	0.001	0.001	0.0005	0.0005		
M022	n.a.	n.a.	3.16(*4)	n.a.	n.a.	n.a.		
M025	< RL	n.a.	0.0075	n.a.	n.a.	n.a.		
M028	< RL	n.a.	< RL	n.a.	n.a.	n.a.		
M038	n.a.	n.a.	n.a.	n.a.	<rl< td=""><td><rl< td=""></rl<></td></rl<>	<rl< td=""></rl<>		
M049	n.a.	n.a.	n.a.	n.a.	<rl< td=""><td><rl< td=""></rl<></td></rl<>	<rl< td=""></rl<>		
M052(*5)	n.a.	n.a.	n.a.	n.a.	<rl< td=""><td><rl< td=""></rl<></td></rl<>	<rl< td=""></rl<>		
M064	n.a.	n.a.	n.a.	n.a.	<rl< td=""><td><rl< td=""></rl<></td></rl<>	<rl< td=""></rl<>		
M074	n.a.	n.a.	0.176(*4)	n.a.	n.a.	n.a.		
M075	n.a.	n.a.	n.a.	n.a.	<rl< td=""><td><rl< td=""></rl<></td></rl<>	<rl< td=""></rl<>		
M076	n.a.	n.a.	n.a.	n.a.	<rl< td=""><td><rl< td=""></rl<></td></rl<>	<rl< td=""></rl<>		
M083	n.a.	n.a.	n.a.	n.a.	<rl< td=""><td><rl< td=""></rl<></td></rl<>	<rl< td=""></rl<>		
M090	n.a.	n.a.	n.a.	n.a.	<rl< td=""><td><rl< td=""></rl<></td></rl<>	<rl< td=""></rl<>		
M098	n.a.	n.a.	n.a.	n.a.	<rl< td=""><td><rl< td=""></rl<></td></rl<>	<rl< td=""></rl<>		
M105	n.a.	n.a.	n.a.	n.a.	<rl< td=""><td><rl< td=""></rl<></td></rl<>	<rl< td=""></rl<>		
M106	n.a.	n.a.	n.a.	n.a.	<rl< td=""><td><rl< td=""></rl<></td></rl<>	<rl< td=""></rl<>		
M107(*5)	n.a.	n.a.	n.a.	n.a.	<rl< td=""><td><rl< td=""></rl<></td></rl<>	<rl< td=""></rl<>		
M108(*5)	n.a.	n.a.	n.a.	n.a.	<rl< td=""><td><rl< td=""></rl<></td></rl<>	<rl< td=""></rl<>		



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M110(*5)	n.a.	n.a.	n.a.	n.a.	<rl< th=""><th><rl< th=""></rl<></th></rl<>	<rl< th=""></rl<>
M122(*5)	n.a.	n.a.	n.a.	n.a.	<rl< td=""><td><rl< td=""></rl<></td></rl<>	<rl< td=""></rl<>
M158	n.a.	n.a.	n.a.	n.a.	<rl< td=""><td><rl< td=""></rl<></td></rl<>	<rl< td=""></rl<>

Material No.	Hexavalent Chromium Content (μg/cm²) (*1) RL: 0.10 μg/cm²
M006	negative
M030	negative
M037	negative
M082	negative
M086	negative
M113	negative
M116	negative
M119	negative
M125	negative
M135	negative
M151	negative
Material No.	Hexavalent Chromium Content (%) (*2) RL: 0.01%
M054	< RL

Abbreviation: Pb = Lead

PD = Lead Cd = Cadmium Hg = Mercury Cr = Chromium Cr (VI) = Chromium (VI) PBBs = Total Polybrominated Biphenyls PBDEs = Total Polybrominated Diphenyl Ethers < = less than RL = Reporting Limit n.a. = Not Applicable ^ = The total Chromium have been determined % = percentage



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Remark:

(*1) The total chromium content in Metal sample was found to be exceeded the maximum permissible limit (0.1%). Thus, the Chromium (VI) content in surface layer have been confirmed with reference to IEC 62321-7-1:2015 Annex.

	Chromium (VI) concentration	Qualitative result				
Negative <0.1µg/cm ²		The sample is negative (-ve) for Cr(VI). The Cr(VI) concentration is below the limit of quantification. The coating is considered a non-Cr(VI) based coating				
Inconclusive ≥0.1μg/cm² and ≤0.13 μg/cm²		The result is considered to be inconclusive. Unavoidable coating variations may influence the determination. Recommendation: if additional samples are available, perform a total of 3 trials to increase sampling surface area. Use the averaged result of the 3 trails for the final determination.				
Positive	>0.13 µg/cm²	The sample is positive (+ve) for Cr(VI). Concentration is above the limit of quantification and the statistical margin of error. The sample coating is considered to contain Cr(VI).				

- *2 The total chromium content in plastic sample or electronic sample was found to be exceeded the maximum permissible limit (0.1%). Thus, the Chromium (VI) content have been confirmed with reference to IEC 62321-7-2:2017.
- *4 According to (EU) 2018/741 and Annex III of directive 2011/65/EU, as a copper alloy containing up to 4% lead by weight are exempted from requirement. This exemption applies to testing sample No.: M022, M074.
- *5 Due to the lack of samples the client submitted, the reporting limit is scaled up to 0.01%.



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BBP, DBP, DEHP, DIBP content

Test Method: IEC 62321-8:2017

Test Result:

	BBP	DBP	DEHP	DIBP
Maximum permissible Limit (%)	0.1	0.1	0.1	0.1

	(%)						
		BBP	DBP	DEHP	DIBP		
Test No.	Material No.	RL (%)					
		0.005	0.005	0.005	0.005		
T001	M001 + M002 + M003	< RL	< RL	< RL	< RL		
T002	M004 + M007 + M009	< RL	< RL	< RL	< RL		
T003	M010 + M012 + M014	< RL	< RL	< RL	< RL		
T004	M015 + M016 + M017	< RL	< RL	< RL	< RL		
T005	M018 + M019 + M020	< RL	< RL	< RL	< RL		
T006	M024 + M026 + M027	< RL	< RL	< RL	< RL		
T007	M029 + M031 + M033	< RL	< RL	< RL	< RL		
T008	M039 + M041 + M042	< RL	< RL	< RL	< RL		
T009	M043 + M044 + M045	< RL	< RL	< RL	< RL		
T010	M061 + M062 + M081	< RL	< RL	< RL	< RL		
T011	M083 + M088 + M090	< RL	< RL	< RL	< RL		
T012	M099 + M101 + M103	< RL	< RL	< RL	< RL		
T013	M105 + M107 + M108	< RL	< RL	< RL	< RL		
T014	M110 + M114 + M115	< RL	< RL	< RL	< RL		
T015	M130 + M133 + M138	< RL	< RL	< RL	< RL		
T016	M141 + M142 + M143	< RL	< RL	< RL	< RL		
T017	M144 + M145 + M146	< RL	< RL	< RL	< RL		
T018	M035 + M148 + M149	< RL	< RL	0.006	< RL		
T019	M032	< RL	< RL	< RL	< RL		
T020	M038 + M064 + M098	< RL	< RL	< RL	< RL		
T021	M106 + M111 + M122	< RL	< RL	< RL	< RL		



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T022	M120 + M134 + M137	< RL	< RL	< RL	< RL
T023	M023 + M036 + M152	< RL	< RL	< RL	< RL
T024	M140	< RL	< RL	< RL	< RL
T025	M155 + M156	< RL	< RL	< RL	< RL
T026	M157	< RL	< RL	< RL	< RL
T027	M147 + M153	< RL	< RL	< RL	< RL

Abbreviation:

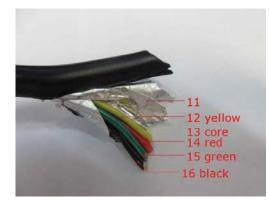
BBP= Benzylbutyl phthalate DBP= Dibutyl phthalate DEHP= Bis(2-ethylhexyl) phthalate DIBP= Diisobutyl phthalate < = less than RL = Reporting Limit N.A. = Not Applicable %= percentage



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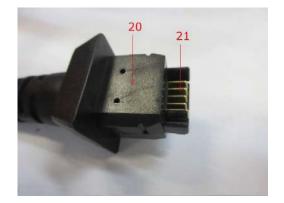










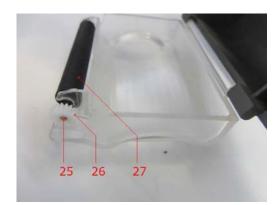




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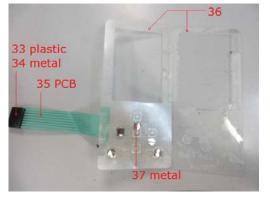


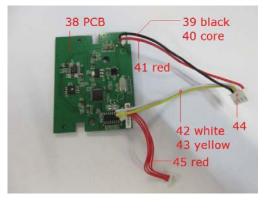




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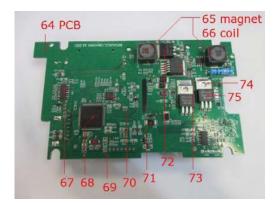
Sample Photos

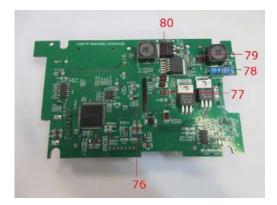






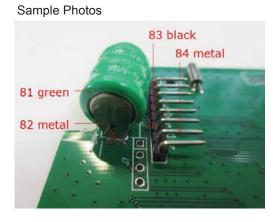




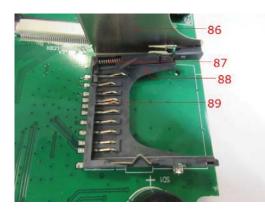




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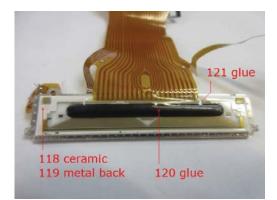






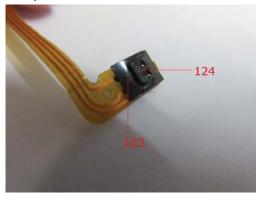


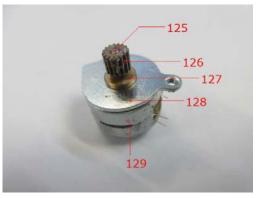






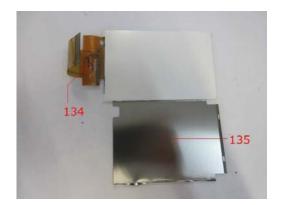
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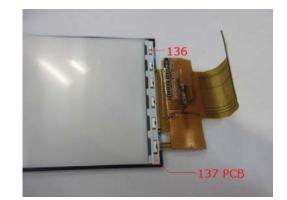






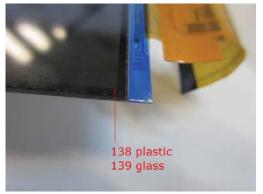


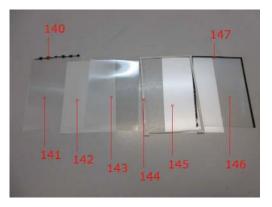


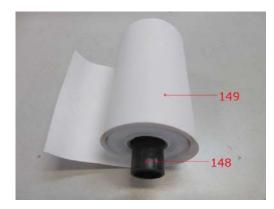




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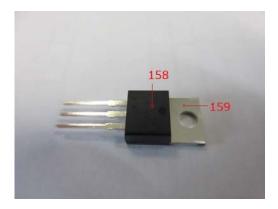
Sample Photos













Product

- END -

General Terms and Conditions of Business of TÜV Rheinland in Greater China

- neral Terms and Conditions of Business of TÜV Rheinland in Greater China ("GTCB") is ween the client and one or more member entities of TÜV Rheinland in Greater China as as the case may be ("TÜV Rheinland"). The Greater China hereof refers to Mainland ng Kong and Taiwan.The client hereof includes: These Ge
- (i) a natural person capable to form legally binding contracts under the applicable laws who concludes the contract not for the purpose of a daily use;
- the incorporated or unincorporated entity duly organized, validly existing and capable to form legally binding contracts under the applicable law. (ii)
- The following terms and conditions apply to agreed services including consultancy services, information, deliveries and similar services as well as ancillary services and other secondary obligations provided within the scope of contract performance. 1.2
- Any standard terms and conditions of the client of any nature shall not apply and shall hereby be expressly excluded. No standard contractual terms and conditions of the client shall form part of the contract even if TÜV Rheinland does not explicitly object to them. 1.3
- n the context of an ongoing business relationship with the client, this GTCB shall also apply to future contracts with the client without TÜV Rheinland having to refer to them separately in each individual

2 Quotations

- Unless otherwise agreed, all quotations submitted by TÜV Rheinland can be changed by TÜV Rheinland without notice prior to its acceptance and confirmation by the other party. Coming into effect and duration of contracts
- 3.1
- The control shall come into detect for the general during upon the quadration letter of TQU Physikatery or a segaratic excercisiani document the liquid paragraph by the contracting parient by the criteria term of the quadratic during the term of the contracting parient by the criteria carried out by TQV Reinitiand (at the criteria tension) of the performance of the criteria term of the contracting parient by the criteria of the criteria term of the criteria term of the criteria term of the performance in the criteria term of the criteria term of the performance in th
- 3.2 The contract term starts upon the coming into effect of the contract in accordance with article 3.1 and shall continue for the term agreed in the contract. 33
- If the contract provides for an extension of the contract term, the contract term will be extended by the term provided for in the contract unless terminated in writing by either party with a six-week notice prior to the end of the contractual term.

Scone of services

- 4.1 The scope and type of the services to be provided by TÜV Rheinland shall be specified in the contractually agreed service scope of TÜV Rheinland by both parties. If no such separate service scope of TÜV Rheinland exists, then the written confirmation of order by TÜV Rheinland shall be decisive for the service to be provided.
- 4.2 The agreed services shall be performed in compliance with the regulations in force at the time the contract is entered into.
- TÜV Rheinland is entitled to determine, in its sole discretion, the method and nature of the assessment unless otherwise agreed in writing or if mandatory provisions require a specific procedure to be followed. 4.3
- procedure to be toxicwed. On execution of the work there shall be no simultaneous assumption of any guarantee of the correctness (proper quality) and working order of either tested or examined parts nor of the installation as a which eand its upstream and/or downstream processes, organisations, use and application in accordance with regulations, nor of the systems on which the installation is based. In particular, TOV Hermitian shall assume no responsibility for the construction, selection of materias and explandant. TOV Hermitian shall assume no responsibility for the construction, selection of materias and explandant. To Hermitian shall assume the explanation in accordance with regulations, unless these questions are expressly covered by the contract. 4.4
- case of inspection work, TUP Rheinland shall not be responsible for the accuracy or checking lafety programme or safety regulations on which the inspections are based, unless otherwise sly agreed in writing. 4.5 In the case of insp of the safety progra
- If mandatory legal regulations and standards or official requirements for the agreed service scope change after conclusion of the contract, with a written notice to the client, TÜV Rheinland shall be entitled to additional remuneration for resulting additional expenses. 4.6
- In transmission of the second of the second second

Performance periods/dates

- 5.1 The contractually agreed periods/dates of performance are based on estimates of the work involved which are prepared in line with the details provided by the client. They shall only be binding if being confirmed as binding by TUV Rheinland in writing.
- 5.2 If binding periods of performance have been agreed, these periods shall not commence until the client has submitted all required documents to TÚV Rheinland.
- Articles 5.1 and 5.2 also apply, even without express approval by the client, to all extensions of agreed periods/dates of performance not caused by TÜV Rheinland. 5.3
- TÜV Rheinland is not responsible for a delay in performance, in particular if the client has not fulfilled his duties to cooperate in accordance with clause 6.1 or has not done so in time and, in particular, has not provided TUV Rheinland with all documents and information required for the performance of the service as specified in the contract. 5.4
- If the performance of TOV Reliand is delayed due to unforeseeable circumstances such as a majeure, strikes, business disruptions, governmental regulations, transport obstacles, etc., Rheritand is entitled to postpone performance for a reasonable period of time which correspond tests to the duration of the hindmance plus any time period which may be required to res 5.5

The client's obligation to cooperate

- 6.1 The client shall guarantee that all cooperation required on its part, its agents or third parties will be provided in good time and at no cost to TÜV Rheinland. 6.2
- Design documents, supplies, auxiliary staff, etc. necessary for performance of the services shall made available free of charge by the client. Moreover, collaborative action of the client must undertaken in accordance with legal provisions, standards, safety regulations and accir prevention instructions. And the client represents and warrants that: 11.3
- a) it has required statutory qualifications; b) the product, service or management system to be certified complies with applicable laws and regulations; and
- c) it doesn't have any illegal and dishonest behaviours or is not included in the list of Enterprises with Serious Illegal and Dishonest Acts of People's Republic of China. If the client breaches the aforesaid representations and warranties, TÜV Rheinland is entitled to i) immediately terminate the contract/order without prior notice; and ii) withdraw the issued testing
- es if an The client shall be any additional cost incurred on account of work having to be redone or being delayed as a result of late, incorrect or incomplete information provided by or lack of proper cooperation from the client. Even where a fixed or maximum price is agreed, TÜV Rheinland shall be entitled to charge extra fees for such additional expense.

Prices

- 7.1 If the scope of performance is not laid down in writing when the order is placed, invoicing shall be based on costs actually incurred. If no price is agreed in writing, invoicing shall be made in accordance with the price is tor TOV Rheinland valid at the time of performance. ss otherwise agreed, work shall be invoiced according to the progress of the work
- If the execution of an order extends over more than one month and the value of the contract or the agreed fixed price exceeds €2,500.00 or equivalent value in local currency, TÜV Rheinland may demand payments on account or in instalments. 7.3

Payment terms

August 2021

- 8.1 All invoice amounts shall be due for payment without deduction on receipt of the invoice. No discounts and rebates shall be granted.
- Payments shall be made to the bank account of TÜV Rheinland as indicated on the invoice, stating the invoice and client numbers. 8.2
- cases of default of payment, TÜV Rheinland shall be entitled to claim default interest at the plicable short term loan interest rate publicly announced by a reputable commercial bank in the untry where TÜV Rheinland is located. At the same time, TÜV Rheinland reserves the right lo im further damages. 8.3
- 8.4 Should the client default in payment of the invoice despite being granted a reasonable grace period, TÜV Rheinland shall be entitled to cancel the contract, withdraw the certificate, claim damages for non-performance and refuse to continue performance of the contract.
- The provisions set forth in article 8.4 shall also apply in cases involving returned cheques, cessation of payment, commencement of insolvency proceedings against the client's assets or cases in which the commencement of insolvency proceedings has been dismissed due to lack of assets. 8.5
- ... Objections to the invoices of TÜV Rheinland shall be submitted in writing within two weeks of re of the invoice 8.6
- TÜV Rheinland shall be entitled to demand appropriate advance payme To V relevance to demine a demined polycolarge advance payment. TOV Relaxed and the entitled to assess the first each entities of the entits of the entities of the entities of the entits of 8.8
- Only legally established and undisputed claims may be offset against claims by TÜV Rhe 8.10
- TÜV Rheinland shall have the right at all times to setoff any amount due or payable by the client, including but not limited to setoff against any fees paid by the client under any contracts, agreement and/or orders/auotations reached with TÜV Rheinland.

- nce of work
- Any part of the work result ordered which is complete in itself may be presented by TÜV Rheinland for acceptance as an instalment. The client shall be obliged to accept it immediately. 9.1 9.2
- If acceptance is required or contractually agreed in an individual case, this shall be deemed to have taken place two (2) weeks after completion and handover of the work, unless the claim refuses acceptance within this period sting at least one fundmental treach of contract by TUV Reiniland. The client is not entitled to refuse acceptance due to insignificant breach of contract by TÜV Rheinland 93
- If acceptance is excluded according to the nature of the work performance of TÜV Rheinland, the completion of the work shall take its place. 9.4
- Competence of use work statistications is place. During the Followise takes the client was unable to make use of the time windows provided for within the scope of a certification procedure for auditophertomance by TDV Reinflued and the entitled to immediately charge a lump-sum compensation of 10% of the order amount as compensation for expenses. The client reserves the right to prove that the TDV Reinflued incurrent on damage whatsbeer's or only a considerably lower damage that the scolew lange hand
- Insofar as the client has undertaken in the contract to accept services, TUV Rheinland shall also entitled to charge lump-sum damages in the amount of 10% of the order amount as compensation to express if the service is not called within one year after the order has been placed. The client reserves the right to prove that the TUV Rheinland has incurred no damage whatsoever or only considerably lower damage than the above mentioned lump sum. 9.6

10. Confidentiality

10.5

10.6

11.

- Instally purpose of Bease terms and conditions, "confidential information" means all know-how, trade secrets, documents, jininges, drawings, oxpertise, information, data, test results, reports, samples, project documents, principa of financial information, customer and supplier information, and marketing techniques and materials, trapple or intrangible, that are supplied. Transferred or otherwise disclosed printed or identicity in the supplier of transplier. The supplier is the supplier information, and marketing techniques, and materials, trapple or intrangible, that are supplier, information of the supplier information is a supplier information in a supplier information of the supplier information is and the supplier information is the supplier information is supplier information in the supplier information is the supplier information is the supplier information is supplier information in the supplier information is the supplier information in the supplier information is the supplier information in the supplier information is the supplier information is the supplier information information is the supplier information is the supplier information is the supplier information is the supplier information in the supplier information in the supplier information information information in the supplier information in the supplier information is the supplier information information in the supplier information in the supplier information infor
- 10.3 All confidential information which the disclosing party transmits or otherwise discloses to the receiving party and which is created during performance of work by TÜV Rheinland:
- a may only be used by the receiving party for the purposes of performing the contract, unless expressly otherwise agreed in writing by the disclosing party:
- are not be object in mining up the backeting party, may not be object in mining up the backeting party, unless this is necessary for fulfiling the purpose of the contract or TUV Rhenhand is required to pass confidential information, inspection reports or documentation to the government authorities, judicial court, accreditation bodies or third parties that are involved in the performance of the contract;
- must be treated by the receiving party with the same level of confidentiality as the receiving party uses to protect its own confidential information, but never with a lesser level of confidentiality than that which is reasonably required. 10.4
 - The receiving party may disclose any confidential information received from the disclosing par to those of its employees who need this information to perform the services required for the co The receiving party undertakes to oblige these employees to observe the same level of secret of torth in this confidentially clause.
 - mation for which the receiving party can furnish proof that
 - a) it was generally known at the time of disclosure or has become general knowledge without violation of this confidentiality clause by the receiving party; or
- b) it was disclosed to the receiving party by a third party entitled to disclose this information; or the receiving party already possessed this information prior to disclosure by the disclosing party.
- d) the receiving party developed it itself, irrespective of disclosure by the disclosing party, shall not be deemed to constitute "confidential information" as defined in this confidentiality clause.
- centered the second sec
- 10.7 From the start of the contract and for a period of three years after termination or expiry of the contract, the receiving party shall maintain strict secrecy of all confidential information and shall not disclose this information to any third parties or use it for itself.

Copyrights and rights of use, publications

- To Pheninal strain region because copyrights in the reports, expert reports/opinions, test reports/results, results, calculations, presentations etc. prepared by TOV Rheinland, unless otherwise agreed by the parties in a separate agreement. As the owner of the copyright, TUV Rheinland is free to grant others the right to use the work results for individual or all types of use (right of use?)
- The client receives a simple, unlimited, non-transferable, non-sublicensable right of use to the contents of the work results produced within the scope of the contract, uriess otherwise agreed by the parties in a separate agreement The client may only use uch reports, expert reportubijonions test reportsinsuits, results calculations, presentations etc. prepared within the scope of the contractor for the contractually agreed purpose.
- The transfer of right of use of the generated work results regulated in clause 11.2. of the GTCB is subject to full payment of the remuneration agreed in favour of TÜV Rheinland.
- The client may use work results only complete and unshortened. The client may only pass on the work results in full unless TÜV Rheinland has given its prior written consent to the partial passing on of work results. 11.4
- Any publication or duplication of the work results for advertising purposes or any further use of the work results beyond the scope regulaed in clause 11.2 needs the prior written approval of TÜV Rheinland in each individual case. 11.5
- ÜV Rheinland may revoke a once given approval according to clause 11.5 at any time without stating reasons. In this case, the client is obliged to stop the transfer of the work results immediately at his own expense and, as far as possible, to withdraw publications.
- 11.7 The consent of TÜV Rheinland to publication or duplication of the work results does not entitle the client to use the corporate logo, corporate design or test/certification mark of TÜV Rheinland.

Liability of TÜV Rheinland 12.1

- Lability of TUV RheInland trespective of the tage basis, to the fulsest entert permitted by applicable law, in the event of a brasch of contactual obligations or tort, the lability of TUV Fibrierland for all damages, losses and reimbursement of expreses caused by TUV Fibrierland. Elegil respectatives and/or employees shall be limited to: (i) in the case of a contract with a fixed overall flee, three times the overall flee for the entities contact, the other the overall the provide the tageted annual flee Euro or equivalent amount in local currency, and (iv) in the case of a framework agreement that provides for the possibility of placing individual orders, first times of the fee for the individual order further the damage or josses have occurred. Notabilisationing the above, in the event that the fauro or equivalent amount in local currency, the total and accurulated lability of TUV Fibriendic fauro or equivalent amount in local currency, the full and accurulated lability of TUV Fibriendic that only invited to and shall not exceed the said 2.5 Million Euro or equivalent and the post of the same occurrency. The total and accurulated lability of TUV Fibriendic shall be only limited to and shall not exceed the said 2.5 Million Euro or equivalent full and the same occurrency.
- 12.2 The limitation of liability according to article 12.1 above shall not apply to damages and/or losses caused by mailce, intent or gross negligence on the part of TÜV Rheinland or its vicarious agents. Such limitation shall not apply to damages for a person's death, physical injury or illness.
- Such limitation shall not apply to damages for a person's dealth, physical njury of illness. In cases involving a fundamental breach of contract, TUV Rheinland will be liable even where miror negligence is involved. For this purpose, a "fundamental breach" is breach of a material contractual obligation, the personance of which permits the due performance of the contract. Any claim for damages for a fundamental breach of contract shall be initialed to the amount of charages reasonably foreseenable damages, unless any of the incrumations damages for the contract and the tops and the shall not be liable for the east of the personnel made available by the cleant to support TUV Rheinland is the performance of its arcivous under the contract, unities such personnel made available is regarded as vicationa gent of TUV Rheinland. If TUV Rheinland is allow for the acts of the personnel made available by the cleant tota for fore graving providence, the cleant to such personnel made available by the cleant tota for personnel mode available is due to personnel as data. 12.3
- 12.4
- 12.5 Inless otherwise contractually agreed in writing, TÜV Rheinland shall only be liable under the contract to the client. 12.6 The limitation periods for claims for damages shall be based on statutory provisi
- None of the provisions of this article 12 changes the burden of proof to the disadvantage of the client 12.7
- 13. Expo control When passing on the services provided by TÜV Rheinland or parts thereof to third parties in G China or other regions, the client must comply with the respectively applicable regulations of na and international export control law. 13.1
- The performance of a contract with the client is subject to the proviso that there are no obstacles to performance due to national or international foreign trade legislations or embargos and/or sanctions. In the event of a violation, TUV Rheinland shall be entitled to terminate the contract with immediate effect and the client shall compensate for the losses incured thereof by TUV Rheinland. 13.2

Data protection notice

Use protection notice TUV Theiniand processes personal data of the client for the purpose of fulfiling this contract. In addition, TUV Theiniand alor personses the data for other legal purposes in accordance with the relevant legal basis. The personal data of the client will only be disclosed to other natural or legal persons of the legal remoting the second s

erials/samples: transport risk and storage

- 15.1The risk and costs for freight and transport of documents or test materialsisamples to and from TÜV Rheinland as well as the costs of necessary disposal measures shall be borne by the client. TÜV Rheinland will be crity liable for the direct loss of test materialsbamples in the laboratories or warehouses of TÜV Rheinland only in case of gross negligence.
- 15.2Any destroyed and otherwise worthless test materials/samples will be disposed of by TÜV Rheinland for the client at the expense of the client, unless otherwise agreed.
- 15.3Undamaged test materials/samples shall be stored by TÜV Rheinland for four (4) weeks after completion of the test. If a longer storage period is desired, TÜV Rheinland charges an appropriate storage fee.
- 15.4After the expiry of the 4 weeks or any longer period agreed upon, the test materials/samples will be disposed of by TÜV Rheinland for the client for a fee in accordance with clause 15.2.
- test material/samples or documentations are given to the client to be placed in storage at their premises, the test material/samples or documentation must be made available to TUV Reiniand material samples and the samples and the samples and the documentation and samples are samples making available the test material/samples and/or documentation, any lability claims for matterial and peoriary damage resulting from the respective testing and certification that is brought forward by the client against TUV Reiniand ball be voided. Termination of the contract

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- 16.1 Notwithstanding datase 3.3 of the GTGB_TOV Rhenhand and the client are settled to burninuble the contrast in high settlements or in the case of services consolidated in one contract, each of the combined gester of the contract individually and independently of the continuation of the remaining services with six (c) months' notice to the end of the contractually agreed term. The notice period shall be shortneed to six (c) weeks in case TOV Rheinland is prevented from performing the services due to a loss or a suspension of the accretations or notification.
- od causes, TÜV Rheinland may consider giving a written notice to the client to terminate the contrac which includes but not limited to the following:
- a) the client does not immediately notify TÜV Rheinland of changes in the conditions within the com which are relevant for certification or signs of such changes;
- b) the client misuses the certificate or certification mark or uses it in violation of the contract; c) in the event of several consecutive delays in payment (at least three times);
- d) a substantial deterioration of the financial circumstances of the client occurs and as a result the payment claims of TUV Rheiniand under the contract are considerably endangered and TUV Rheinland cannot reasonably be expected to continue the contractual relationship.
- e) in the event of any serious misrepresentation, be it by intentional fraud or grossly negligent behavior of the managers, employees or agents of the client;

16.3In the event of termination with written notice by TUV Rheniand for good cause, TUV Rheniand shall be entitled to a turns-sun daim for damages against the dirit if the conditions of a damin for damages easily the turns-base of the turns-base of the turns of the turns of turns

16.4TQW Phyladeut is also entitled to terminate the contract will, written notice if the client has not been able to the three works for utility denotes privately provided by TQV Phyladeutal writtin the scope of a certification procedure and the certificate therefore has to be writtenawn (for example during the performance of monitoring audit). Clause 163 applies accordingly.

17.1°Force Majoure' means the occurrence of an event or circumstance that prevents or impedes a Party from performing one or more of its contractual ediolizations under the contract, if and to the extent that Tart Party proves: (a) that such impediment beyond is reasonable control; and (b) that it could not reasonably have been foreseen at the time of the conclusion of the contract, and (c) that the effects of the impediment could not reasonably have been avoided or evectome by the affected Party.

At reasonably naive been avoided of overcome or yne amexator nary. In the absence of proof to the occurry, the following events differing a Party shall be presumed to fulfil conditions (a) and (b) under paragraph 1 of this Glause; (i) war (whether declared or not), hostillites, maximum, act of foreign enemises, destinate military molitization; (ii) of war, not, network and the esticiton; embrage, sucharis, via a contraining, and the original contraining with naive and governmental order, expropriation, secture of works, regulation, nationalization; (i) diagraph, contrained with any law down of transport, telecommunication, transmission, and energy, (iii) generalized status and as boycet, strike and lock-out go-slow, occupation of flactories and previous.

as boycat, strike and lock-out, go-slow, occupation of factories and promises. The Party successful yinoxing this Calles is releared from it day to perform its chilgatons under the contract and from any liability in damages of from any other contractual remedy for breach of contract, from the time at which the implementary classes inability begrowing, provided that the notice thereof is any other than the strike the implementary of the contract the contract the notice thereof is which notice thereof reaches the other Party. Where the effect of the impediment inviked implement substantially depriving the contracting Parties of what they were reasonable writtle to expect under the substantially depriving the contracting Parties of what they were reasonable writtle to expect under the ensemblement of the Party. Unless otherwise agend, the Parties expressing 120 days that contract in the Party is the under the the implement to exect 120 days.

18.1The Parties are bound to perform their contractual duties even if events have rendered performance more onerous than could reasonably have been anticipated at the time of the conclusion of the contract.

(a) the continued performance of its contractual duties has become excessively onerous due to an event beyond its reasonable control which it could not reasonably have been expected to have taken into account at the time of the conclusion of the contract; and that

(b) it could not reasonably have avoided or overcome the event or its consequences, the Parties are bound, within a reasonable time of the invocation of this Clause, to negotiate alternative contractual terms which reasonably allow to overcome the consequences of the event.

. Where Clause 18.2 applies, but where the Parties have been unable to agree alternative contractual terms as provided in that paragraph, the Party invoking this Clause is entitled to terminate the contract, but cannot recuest adactation by the judge or arkitrator without the agreement of the other Party.

All amendments and supplements must be in writing in order to be effective. This also applies to amendments and supplements to this clause 17.1.

Should one or several of the provisions under the contract and/or these terms and conditions be or become ineffective, the contracting parties shall replace the invalid provision with a legally valid provision that comes closes to the content of the invalid provision in legal and commercial terms.

Unless otherwise stipulated in the contract, the governing law of the contract and these terms and conditions shall be chosen following the rules as below:

a) if TÜV Rheinland in question is legally registered and existing in the People's Republic of China, the contracting parties hereby agree that the contract and these terms and conditions shall be governed by the laws of the People's Republic of China.

b) if TŪV Rheinland in question is legally registered and existing in Taiwan, the contracting parties hereby agree that the contract and these terms and conditions shall be governed by the laws of Taiwan.

c) if TÜV Rheinland in question is legally registered and existing in Hong Kong, the contracting parties hereby agree that the contract and these terms and conditions shall be governed by the laws of Hong

Any dispute in connection with the contract and these terms and conditions or the execution thereof shall be settled friendly through negotilations.

Unless otherwise stipulated in the contract, if no settlement or no agreement in respect of the extension of the negotiation period can be reached within two months of the arising of the dispute, the dispute shall be submitted. a) in the case of TOV Revisitand in question being legally registered and oblights in the Despite that BO Cohes, to China Martination Commission (GETAG) is the Analysis of Revisitation of the Analysis of

b) in the case of TÜV Rheinland in question being legally registered and existing in Taiwan, to Chinese Arbitration Association, Taipei to be arbitrated in accordance with its then current Rules of Arbitration. The arbitration shall take place in Taipei.

artitration shall take piace in lapel. c) in the case of T/UV Rhelindan being legally registered and existing in Hong Kong, to Hong K International Arbitration Centre (HKIAC) to be settled by arbitration under the HKIAC Administe Arbitration Rules in force when the Notice of Arbitration is submitted in accordance with these rules. I arbitration shall take piace in hong Kong.

decision of the relevant arbitration tribunal shall be final and binding on both parties. The arbitration fee shall be borne by the losing party.

18.2. Notwithstanding paragraph 1 of this Clause, where a Party proves that:

19. Partial invalidity, written form, place of jurisdiction and dispute resolution

f) if TÜV Rheinland, for reasons beyond its control, is temporarily or finally not able or entitled to continue or finalize the performance of the service, e.g. in case of force majeure, government interference, sanctions, los of accreditation or notification, or other.