



BANSAL CALIBRATION SERVICES



TEST REPORT

TC-6455

ULR No.: TC645521000007304

Report No.--2111100033

Issue Date --- 01-12-2021

Customer Name : Multipower Earthing Solutions Private Limited.
S NO 35/1, SHED NO 05, Narhe, Khedekar
Industrial Estate Pune, Maharashtra, 411041.

Customer Ref. No. : ----

Sample Particulars: Copper Bonded Rod-17.2mm Dia. X 3Mtr. Long

Sample Receipt Date : 10-11-2021

Test Requested : Salt Spray Test

Sample Drawn By : By CUSTOMER

TEST RESULT

Date of Testing : 11-11-2021- 30-11-2021

SALT SPRAY TEST:-
IS:9844:1981

Test Method : Tested in accordance with IS:9844:1981 Standard practice for operating Salt Spray Apparatus.

Test Apparatus : Salt Spray Chamber

No. of Test Specimen : 01

Type of Salt used : NaCl (M.W. 58.44) with minimum assay 99.9%, Total impurities \leq 0.1%

Test condition :

S No.	Parameter	Actual
1	Salt Sol. Conc.	5 % wt
2	Chamber Temperature	(35 \pm 2) $^{\circ}$ C
3	pH of fog solution	6.5-7.2
4	Fog Collection	1-2 ml/hr
5	Test duration	500 hours

Observation:-

S. No.	Test Duration	Observation
1.	After 500 hrs.	No white rust, No red rust observed on the surface of specimen.

CHECKED BY
Surya Pratap

(Sr. Engineer Testing)

End of Report

AUTHORISED BY
Dharmendra Kumar
(Technical Manager)

- NOTE:-
1. Sample will be retained for Tensile Test only for three months.
 2. Sample will be retained for Chemical Composition only for one month.
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BANSAL CALIBRATION SERVICES

Testing Service For Spectro Analysis, Mechanical Test & Metallurgical all Analysis

TEST REPORT

Report No.--2112030039

Issue Date --- 10-12-2021

Customer Name : Multipower Earthing Solutions Private Limited. **Customer Ref. No.** : ----
 S NO 35/1, SHED NO 05, Narhe, Khedekar
 Industrial Estate Pune, Maharashtra, 411041.

Sample Particulars : Ground Earth Enhancement Compound **Sample Receipt Date** : 03-12-2021
Test Requested : ROHS Test **Sample Drawn By** : By CUSTOMER

TEST RESULT

Date of Testing : 03-12-2021-10-12-2021

TEST(S) REQUESTED : ROHS TEST FOR Pb, Cd, Hg, Cr6+, PBB & PBDE

Test Item(s):	Unit	Test Protocol	Results(ppm)	MDL	Limit
Cadmium(Cd)	mg/kg	AAS/Work Instruction No. BCS/Cd/01	BDL	10	100
Lead (Pb)	mg/kg	AAS/Work Instruction No. BCS/Pb/01	BDL	10	1000
Mercury (Hg)	mg/kg	AAS/Work Instruction No. BCS/Hg/01	BDL	10	1000
Hexavalent Chromium (CrVI) #	mg/kg	AAS/Work Instruction No. BCS/Cr/01	BDL	---	----
Sum of PBBs	mg/kg	IEC 62321:2008	BDL	-	1000
Monobromobiphenyl	mg/kg	IEC 62321:2008	BDL	10	-
Dibromobiphenyl	mg/kg	IEC 62321:2008	BDL	10	-
Tribromobiphenyl	mg/kg	IEC 62321:2008	BDL	10	-
Tetrabromobiphenyl	mg/kg	IEC 62321:2008	BDL	10	-
Hexabromobiphenyl	mg/kg	IEC 62321:2008	BDL	10	-
Pentabromobiphenyl	mg/kg	IEC 62321:2008	BDL	10	-
Heptabromobiphenyl	mg/kg	IEC 62321:2008	BDL	10	-
Octabromobiphenyl	mg/kg	IEC 62321:2008	BDL	10	-
Nonabromobiphenyl	mg/kg	IEC 62321:2008	BDL	10	-
Decabromobiphenyl	mg/kg	IEC 62321:2008	BDL	10	-
Sum of PBDEs	mg/kg	IEC 62321:2008	BDL	-	1000
Monobromodiphenyl ether	mg/kg	IEC 62321:2008	BDL	10	-
Dibromodiphenyl ether	mg/kg	IEC 62321:2008	BDL	10	-
Tribromodiphenyl ether	mg/kg	IEC 62321:2008	BDL	10	-
Tetrabromodiphenyl ether	mg/kg	IEC 62321:2008	BDL	10	-
Pentabromodiphenyl ether	mg/kg	IEC 62321:2008	BDL	10	-
Hexabromodiphenyl ether	mg/kg	IEC 62321:2008	BDL	10	-
Heptabromodiphenyl ether	mg/kg	IEC 62321:2008	BDL	10	-
Octabromodiphenyl ether	mg/kg	IEC 62321:2008	BDL	10	-





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Nonabromodiphenyl ether	mg/kg	IEC 62321:2008	BDL	10	-
Decabromodiphenyl ether	mg/kg	IEC 62321:2008	BDL	10	-

Note:

- (a) mg/kg = ppm ; 0.1wt% = 1000ppm
- (b) BDL= Below detection limit.
- (c) MDL = Method Detection Limit.
- (d) - = not regulated
- (e) # = a. Positive means the presence of CrVI on the tested areas
b. Negative means the absence of CrVI on the tested areas

For corrosion protection coatings on metals: Information on storage conditions and production date of the tested sample is unavailable and thus results of Cr(VI) represent status of the sample at the time of testing.

*** End of report***

CHECKED BY
Anirudh Kumar
(Assistant Manager)

AUTHORISED BY
Dharmendra Kumar
(Technical Manager)

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 - 7. Test has been subcontracted to BCS approved lab.



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Testing Service For Spectro Analysis, Mechanical Test & Metallurgical all Analysis

TEST REPORT

Report No.--2112030040

Issue Date --- 10-12-2021

Customer Name : Multipower Earthing Solutions Private Limited.
S NO 35/1, SHED NO 05, Narhe, Khedekar
Industrial Estate Pune, Maharashtra, 411041.

Customer Ref. No. : ---

Sample Particulars : Ground Earth Enhancement Compound

Sample Receipt Date : 03-12-2021

Test Requested : Sulphur Content Test

Sample Drawn By : By CUSTOMER

TEST RESULT

Date of Testing : 03-12-2021-10-12-2021

Sulphur Test:-

Protocol Used:- IEC 62561-7 Clause -5.3.1 & 2, ISO: 14689-1, ISO: 4689-3

Parameters	Specification	Observation	Result
Sulphur	<2.0%	0.06%	Satisfactory

End of Report

CHECKED BY
Anirudh Kumar
(Assistant Manager)



AUTHORISED BY
Dharmendra Kumar
(Technical Manager)

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BANSAL CALIBRATION SERVICES

Testing Service For Spectro Analysis, Mechanical Test & Metallurgical all Analysis

TEST REPORT

Report No.--2112030041

Issue Date --- 10-12-2021

Customer Name : Multipower Earthing Solutions Private Limited.
S NO 35/1, SHED NO 05, Narhe, Khedekar
Industrial Estate Pune, Maharashtra, 411041.

Customer Ref. No. : ----

Sample Particulars : Ground Earth Enhancement Compound

Sample Receipt Date : 03-12-2021

Test Requested : Determination of Resistivity

Sample Drawn By : By CUSTOMER

TEST RESULT

Date of Testing : 03-12-2021-10-12-2021

Determination of Resistivity:-

Protocol Used:- IEC 62561-7 Clause -5.4.3, ASTM G-57-95.

Parameters	Specification	Observation	Result
Resistivity	0.2 Ohm-m	0.042	Satisfactory

End of Report

CHECKED BY
Anirudh Kumar
(Assistant Manager)

AUTHORISED BY
Dharmendra Kumar
(Technical Manager)

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BANSAL CALIBRATION SERVICES

Testing Service For Spectro Analysis, Mechanical Test & Metallurgical all Analysis

TEST REPORT

Report No.--2112030042

Issue Date --- 10-12-2021

Customer Name : Multipower Earthing Solutions Private Limited.
S NO 35/1, SHED NO 05, Narhe, Khedekar
Industrial Estate Pune, Maharashtra, 411041.

Customer Ref. No. : ----

Sample Particulars : Ground Earth Enhancement Compound

Sample Receipt Date : 03-12-2021

Test Requested : Thermal Stability

Sample Drawn By : By CUSTOMER

TEST RESULT

Date of Testing : 03-12-2021-10-12-2021

Thermal Stability Test:-

Protocol Used :- IEC: 62561-7:2012

Parameter	Condition	Unit	Test Temperature	Test Result
Temperature Resistance	-30°C to -10°C	Ω.m	-20°C	0.025
	-10°C to 0°C	Ω.m	-5°C	0.047
	0°C to 10°C	Ω.m	5°C	0.028
	10°C to 60°C	Ω.m	50°C	0.030

End of Report

CHECKED BY
Anirudh Kumar
(Assistant Manager)



AUTHORISED BY
Dharmendra Kumar
(Technical Manager)

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BANSAL CALIBRATION SERVICES

Testing Service For Spectro Analysis, Mechanical Test & Metallurgical all Analysis

TEST REPORT

Report No.--2112030043

Issue Date --- 10-12-2021

Customer Name : Multipower Earthing Solutions Private Limited.
S NO 35/1, SHED NO 05, Narhe, Khedekar
Industrial Estate Pune, Maharashtra, 411041.

Customer Ref. No. : ----

Sample Particulars : Ground Earth Enhancement Compound

Sample Receipt Date : 03-12-2021

Test Requested : Corrosion Resistance Test

Sample Drawn By : By CUSTOMER

TEST RESULT

Date of Testing : 03-12-2021-10-12-2021

Corrosion Resistance Test:-

Protocol: -- IEC 62561-7 clause -5.5.1 & 5.5.5, ASTM G:59-97

Parameter	Specification	Observation	Result
Polarization Resistance	>4Ω x m2	12.5Ω x m2	Satisfactory

End of Report

CHECKED BY
Anirudh Kumar
(Assistant Manager)

AUTHORISED BY
Dharmendra Kumar
(Technical Manager)

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