





TEST REPORT
Industrial Services

Prüfbericht - Nr.: Test Report No.:	0101-03746-25-05 TC1382525000374605F	Seite 1 von 4 Page 1 of 4	
Auftraggeber: Client:	JSW Steel Limited Dolvi Works Geetapuram Dolvi, Taluka Pen, Dist. Raigad 402107, India.		
Kunden-referenz-Nr.: Client reference no.:	TRF 2025-11-24	Auftrags-Nr.: Order no.:	147133577
Gegenstand der Prüfung: Test item:	Hot rolled oiled and pickled coil	Auftragsdatum: Order date.:	2025-11-26
Bezeichnung Typ-Nr.: Identification / Type No.:	-	wareneingangsdatum: Date of sample receipt:	2025-11-26
Auftrags-Inhalt: Order content:	Chemical Test	Prüfmuster-Nr.: Test sample no.:	0101-03746-25-05
Prüfgrundlage: Test specification:	Customer Requirement: RoHS Directive Compliance: Restriction of the use of Hazardous Substances Directive 2011/65/EU, RoHS2 with its Amendment Directive 2015/863/EU.	prüfzeitraum Testing Period:	2025-11-26 To 2025-12-02
Ort der Prüfung: Place of testing:	Plot No. 27B, 2 nd Cross, Electronic City Phase1, Hosur Road, Bangalore - 560 100, Karnataka, India		
Prüflaboratorium: Testing laboratory:	TÜV Rheinland (India) Private Limited, Material Testing Laboratory		
Prüfergebnis: Test Result:	PASS		
Geprüft von: Checked by:	Suresh M	Genehmigt von: authorized by:	Anbukumar S
Datum: Date:	2025-12-02	Ausstellungsdatum: Issue date:	2025-12-02
Stellung / Position:	Deputy.Manager Material Testing Laboratory	Stellung / Position:	Manager-Operation Material Testing Laboratory
Sonstiges/ Other: Nil			
Zustand des prüfgegenstandes bei Anlieferung: Condition of the test item at the time of delivery: Good			
Abkürzungen:	ok / P = entspricht Prüfgrundlage fail / F = entspricht nicht Prüfgrundlage n.a. / N = nicht anwendbar	Abbreviations:	ok / P = passed fail / F = failed n.a. / N = not applicable
Dieser Prüfbericht bezieht sich nur auf das o.g. Prüfmuster und darf ohne Genehmigung der Prüfstelle nicht auszugsweise vervielfältigt werden. Dieser Bericht berechtigt nicht zur Verwendung eines Prüfzeichens. This test report relates to the a.m 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 test mark. Test item submitted by client. Sampling not done by TUVRI. 'Laboratory employs simple acceptance rule in making Pass or Fail decisions on test results with no guard band'.			



Prüfbericht - Nr.: 0101-03746-25-05
Test Report No.:
ULR No.: TC1382525000374605F

Seite 2 von 4
Page 2 of 4



TEST RESULTS

Discipline: Chemical. Product Group: Hazardous & Restricted Chemicals

1. Heavy Metals:

Test Methods: IEC 62321-4:2017 for Mercury, IEC 62321-5:2014 for Total Lead, Cadmium, Chromium by ICP-OES, Work Instruction MS-0026248 for Hexavalent Chromium(Cr(VI)) in metal by spot test.

Sample No.	Unit	Total Cadmium	Hexavalent Chromium (Cr(VI))	Total Mercury	Total Lead
Sample-001-Metal	mg/kg	ND	Negative	ND	ND
RoHS Limit, Max.	mg/kg	100	1000	1000	1000

Limit of Quantification : Total Cadmium, Lead : 50 mg/kg and Mercury: 10 mg/kg

Qualitative Analysis of Hexavalent Chromium :

Positive indicates Presence of Cr(VI) Coating,

Negative Indicates absence of Cr(VI) Coating.

Abbreviation: "IEC" denotes International Electrotechnical Commission, "ND" denotes not detected,

"ICP-OES" denotes Inductively Coupled Plasma-Optical Emission Spectrometer,

"mg/kg" denotes milligram per kilogram,

2. PBBs and PBDEs:

Test Methods: IEC 62321-6:2015, GC-MS for PBBs and PBDEs

Flame Retardants		Results, Sample 001, mg/kg.
PBBs	Bromobiphenyl	ND
	Dibromobiphenyl	ND
	Tribromobiphenyl	ND
	Tetrabromobiphenyl	ND
	Pentabromobiphenyl	ND
	Hexabromobiphenyl	ND
	Heptabromobiphenyl	ND
	Octabromobiphenyl	ND
	Nonabromobiphenyl	ND
	Decabromobiphenyl	ND
	RoHS Limit, Sum of PBB's, mg/kg	1000
	PBDEs	Bromodiphenylether
Dibromodiphenylether		ND
Tribromodiphenylether		ND
Tetrabromodiphenylether		ND
Pentabromodiphenylether		ND
Hexabromodiphenylether		ND
Heptabromodiphenylether		ND
Octabromodiphenylether		ND
Nonabromodiphenylether		ND
Decabromodiphenyl ether		ND
RoHS Limit, Sum of PBDE's, mg/kg		1000

Limit of Quantification : PBBs & PBDEs: 50 mg/kg Each

Abbreviation : "mg/kg" denotes milligram per kilogram, "ND" denotes not detected,

'IEC" denotes International Electrotechnical Commission.



Prüfbericht - Nr.:
Test Report No.:
ULR No.:

0101-03746-25-05
TC1382525000374605F

Seite 3 von 4
Page 3 of 4



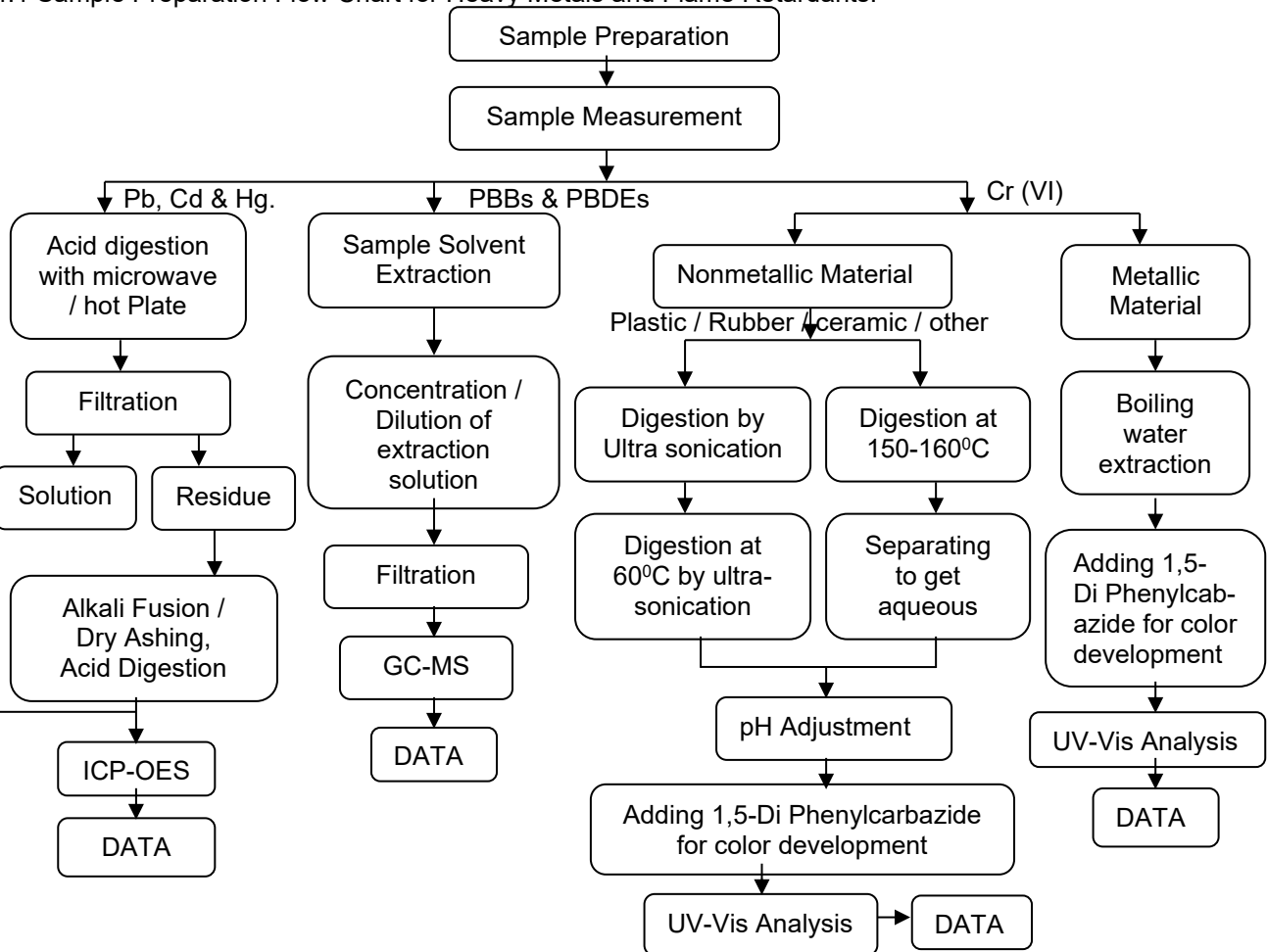
3. Phthalates: Sample-001

Sl.no	Test / Parameter	Unit	Limit	Results	Test Method
1	Dibutyl Phthalate(DBP)	mg/kg	1000	ND	IEC 62321-8:2017, GC-MS
2	Benzyl Butyl Phthalate(BBP)		1000	ND	IEC 62321-8:2017, GC-MS
3	Diethyl Hexyl Phthalate(DEHP)		1000	ND	IEC 62321-8:2017, GC-MS
4	Di Iso Butyl Phthalate(DiBP)		1000	ND	IEC 62321-8:2017, GC-MS

Note: Limit of Quantification for each Phthalates: 50 mg/kg, GC-MS Denotes Gas chromatograph Mass spectrometer 'ND'- Denotes 'not detected'. "mg/kg" Denotes milligram per kilogram, "IEC" denotes International Electrotechnical Commission.

Conclusion: The submitted sample complies with the requirements of RoHS Directive 2011/65/EU with its Amendment Directive 2015/863/EU.

4.1 Sample Preparation Flow Chart for Heavy Metals and Flame Retardants:



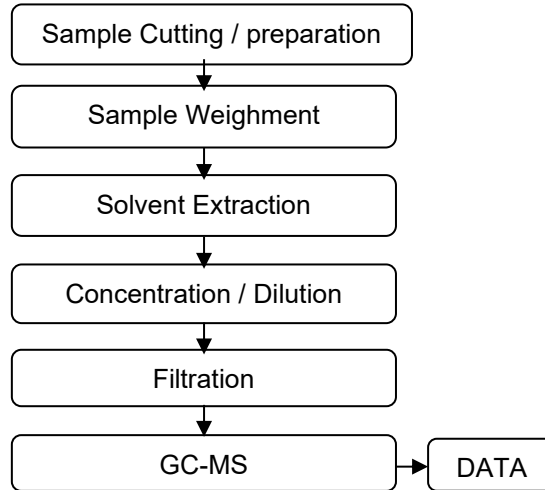
Prüfbericht - Nr.:
Test Report No.:
ULR No.:

0101-03746-25-05
TC1382525000374605F

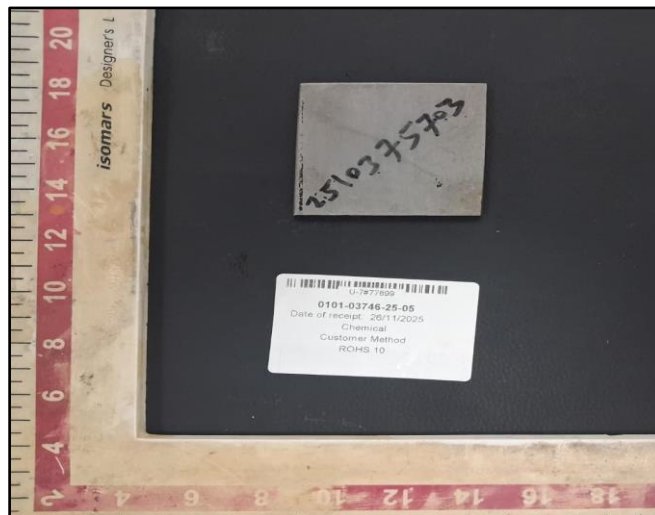
Seite 4 von 4
Page 4 of 4



4.2 Phthalates Testing Flow Chart



5. Test item Photograph:



Sample-001

Photograph of test sample as in received condition

Disclaimer:

1. This report is issued based on our General Terms and Conditions.
2. The results and recommendations in this report are based on the information available at the time of the testing. They are further applicable within the limits of any instruction of the customer.
3. Test sample(s), as well as sample information, description, product details and intended usage was provided by customer. The laboratory is not responsible for the information/data provided by the customer which can affect the validity of results.
4. This test report was issued for the customer only. No other party may rely on its contents and any liability towards third parties is strictly disclaimed, unless and to the extend such party is expressly mentioned in the report

---- End of Test Report ----