

Prüfbericht - Nr.: Test Report No.:		0101-03746-25-06 TC1382525000374606F		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:		Billet		Auftragsdatum: Order date.:		2025-11-26	
Bezeichnung Typ-Nr.: Identification / Type No.:		-		wareneingangsda tum: Date of sample receipt:		2025-11-26	
Auftrags-Inhalt: Order content:		Chemical Test		Prüfmuster-Nr: Test sample no.:		0101-03746-25-06	
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.					
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		Ausstelldatum: 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'.							

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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	ND
	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.

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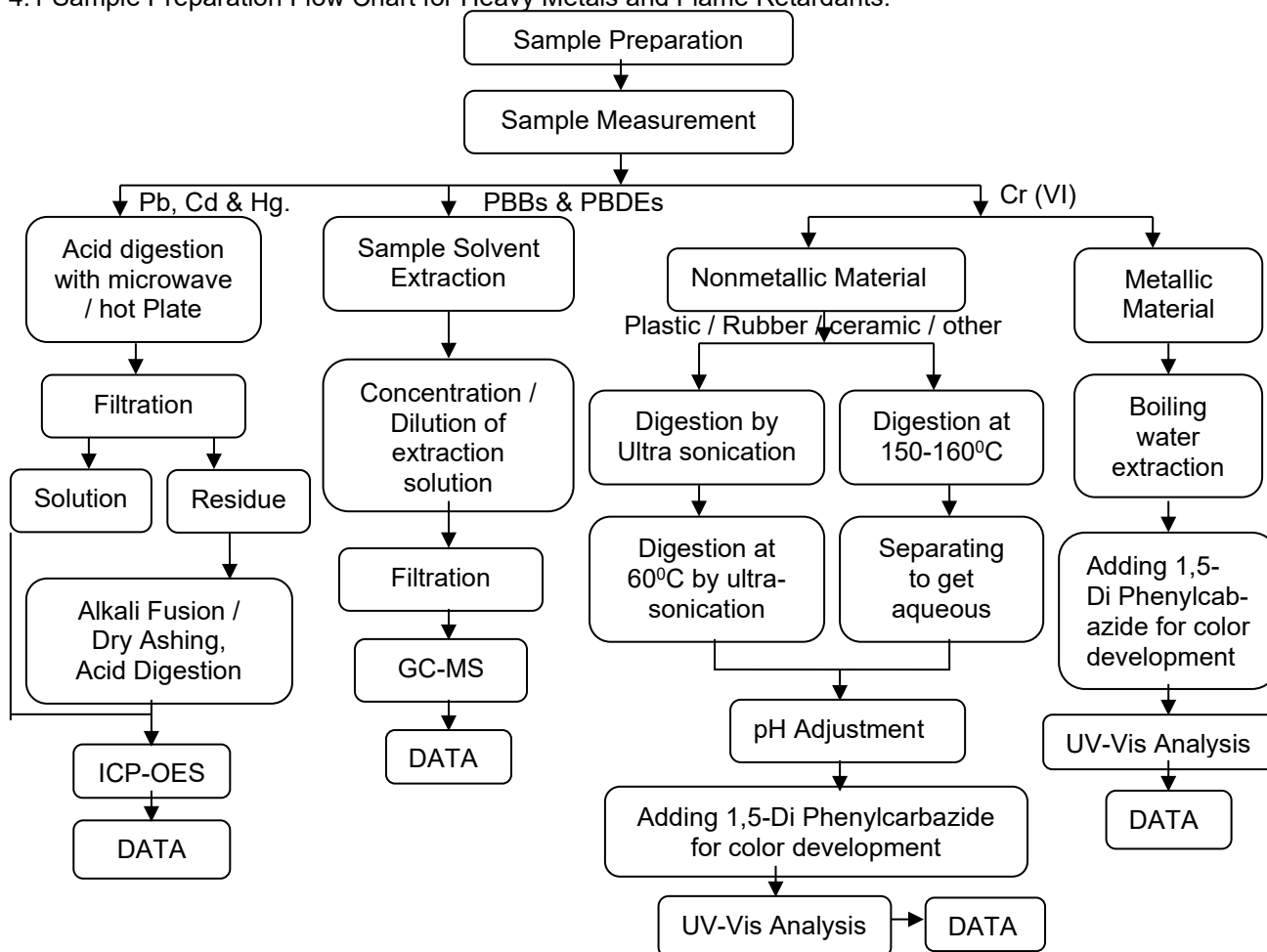
3. Phthalates: Sample-001

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:



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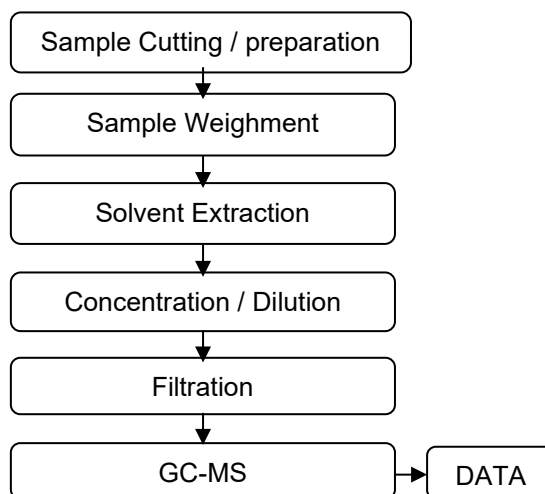
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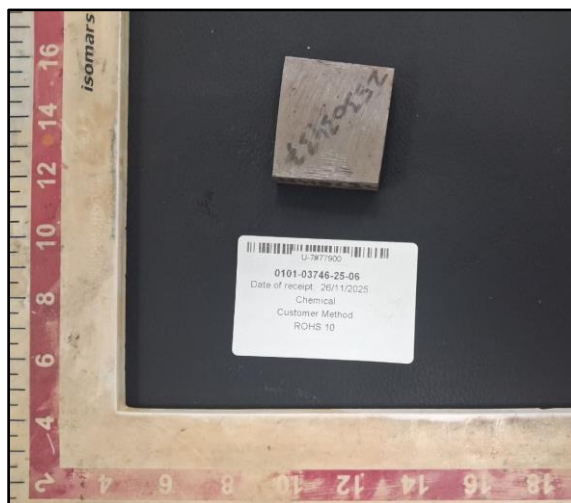
ULR No:



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 ----