



TEST REPORT



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Report No. : TAK-2024-114271

Receipt Date : Aug.02.2024

Customer : JIN HO, CHO

Test Date : Aug.19.2024

Company name : DONG-A STEEL CO.,LTD.

Address : 15, Taein 4-gil, Gwangyang-si, Jeollanam-do, Republic of Korea

Sample : Carbon Steel Structure Tube Anti-Rusting Oil

Testing Date : Aug.02.2024 ~ Aug.19.2024

Testing Environment : Temperature (20 ± 5)°C, Relative humidity (40 ± 20) %

Test method : Refer to following pages

Test result : Refer to following pages

Attachment : Flow chart and Sample pictures

USAGE : SUBMITTED PURPOSE FOR

- NOTE : 1. The test results on this test report are only limited to the samples and sample names provided by the customer and KTR does not guarantee the quality of all products of the customer, and you can confirm the authenticity of the test report online (www.ktr.or.kr) or by using the QR code.
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3. Only original copy (including certified copy) of the test report is valid – electronic copy (hard and/or soft) is for your reference only.

Park Jimin

Prepared by Park Jimin

Tel : 02-2092-3676

Hwang Beomgoo

Reviewed by Hwang Beomgoo

Technical Manager

Tel : 1577-0091(ARS ①→④)

Aug.19.2024

Korea Testing & Research Institute

President

Kim Hyun Cheol

QR Code to verify Genuineness

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Report No. : TAK-2024-114271

Sample : Carbon Steel Structure Tube Anti-Rusting Oil

TEST RESULT

Test itmes	Unit	Sample	Results	MDL	Test Methods
Pb	mg/kg	-	Not detected	10	applied IEC 62321-5 Ed.1.0:2013
Cd	mg/kg	-	Not detected	1	applied IEC 62321-5 Ed.1.0:2013
Hg	mg/kg	-	Not detected	1	applied IEC 62321-4 Ed.1.1:2017
Cr ⁶⁺	mg/kg	-	Not detected	8	applied IEC 62321-7-2 Ed.1.0:2017
Total-PBBs	mg/kg	-	Not detected	-	applied IEC 62321-6 Ed.1.0:2015
Mono-BB	mg/kg	-	Not detected	10	applied IEC 62321-6 Ed.1.0:2015
Di-BB	mg/kg	-	Not detected	10	applied IEC 62321-6 Ed.1.0:2015
Tri-BB	mg/kg	-	Not detected	10	applied IEC 62321-6 Ed.1.0:2015
Tetra-BB	mg/kg	-	Not detected	10	applied IEC 62321-6 Ed.1.0:2015
Penta-BB	mg/kg	-	Not detected	10	applied IEC 62321-6 Ed.1.0:2015
Hexa-BB	mg/kg	-	Not detected	10	applied IEC 62321-6 Ed.1.0:2015
Hepta-BB	mg/kg	-	Not detected	10	applied IEC 62321-6 Ed.1.0:2015
Octa-BB	mg/kg	-	Not detected	10	applied IEC 62321-6 Ed.1.0:2015
Nona-BB	mg/kg	-	Not detected	10	applied IEC 62321-6 Ed.1.0:2015
Deca-BB	mg/kg	-	Not detected	10	applied IEC 62321-6 Ed.1.0:2015
Total-PBDEs	mg/kg	-	Not detected	-	applied IEC 62321-6 Ed.1.0:2015
Mono-BDE	mg/kg	-	Not detected	10	applied IEC 62321-6 Ed.1.0:2015
Di-BDE	mg/kg	-	Not detected	10	applied IEC 62321-6 Ed.1.0:2015
Tri-BDE	mg/kg	-	Not detected	10	applied IEC 62321-6 Ed.1.0:2015
Tetra-BDE	mg/kg	-	Not detected	10	applied IEC 62321-6 Ed.1.0:2015
Penta-BDE	mg/kg	-	Not detected	10	applied IEC 62321-6 Ed.1.0:2015
Hexa-BDE	mg/kg	-	Not detected	10	applied IEC 62321-6 Ed.1.0:2015
Hepta-BDE	mg/kg	-	Not detected	10	applied IEC 62321-6 Ed.1.0:2015
Octa-BDE	mg/kg	-	Not detected	10	applied IEC 62321-6 Ed.1.0:2015
Nona-BDE	mg/kg	-	Not detected	10	applied IEC 62321-6 Ed.1.0:2015
Deca-BDE	mg/kg	-	Not detected	10	applied IEC 62321-6 Ed.1.0:2015
DIBP	mg/kg	-	Not detected	50	applied IEC 62321-8 Ed.1.0:2017



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DBP	mg/kg	-	Not detected	50	applied IEC 62321-8 Ed.1.0:2017
BBP	mg/kg	-	Not detected	50	applied IEC 62321-8 Ed.1.0:2017
DEHP	mg/kg	-	Not detected	50	applied IEC 62321-8 Ed.1.0:2017

Notes : mg/kg = ppm (parts per million)

N.D = Not detected(<MDL)

MDL = Method detection limit



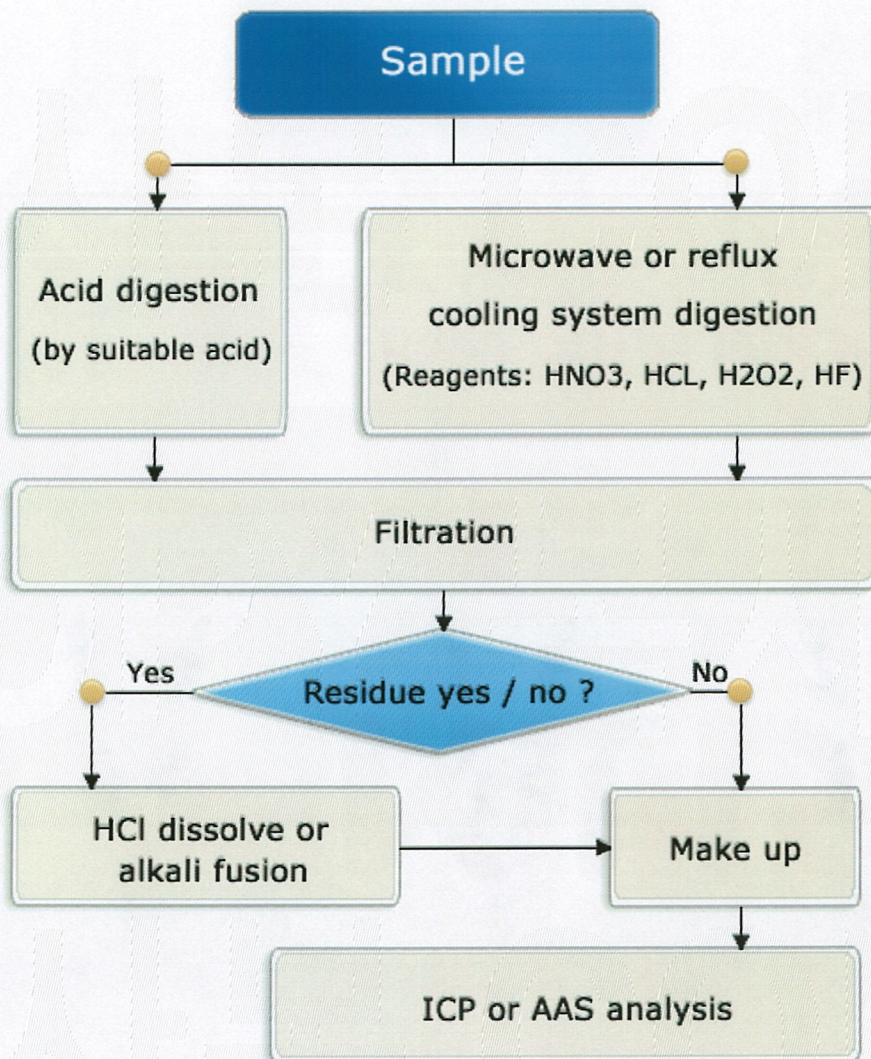
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Sample : Carbon Steel Structure Tube Anti-Rusting Oil

Pb, Cd, Hg : Tested by Seong Hui-ra(Tel : 02-2092-3832)

Flow Chart of heavy metals analysis





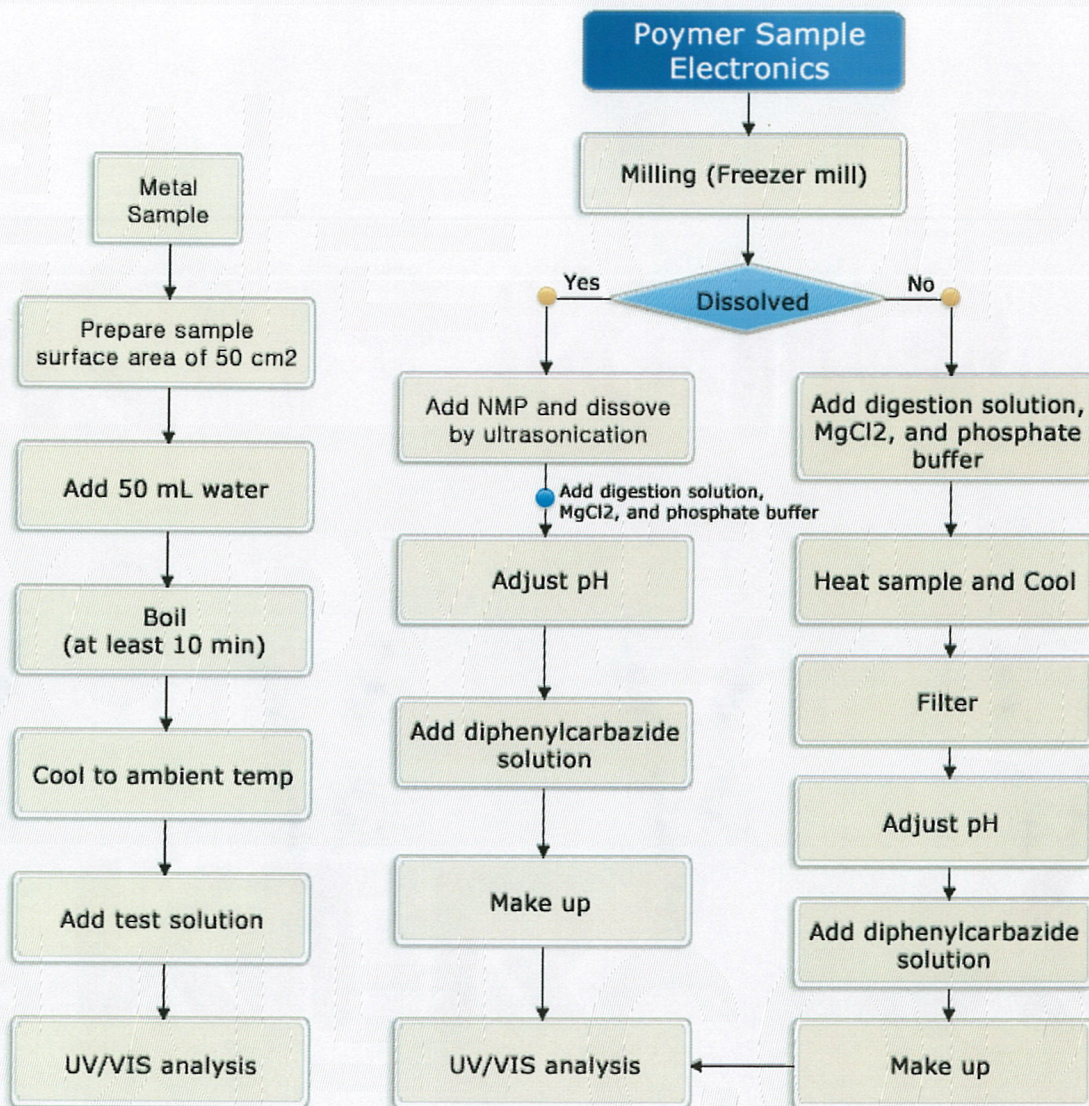
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Cr⁶⁺ : Tested by Seong Hui-ra(Tel : 02-2092-3832)

Flow Chart of Cr⁶⁺ analysis





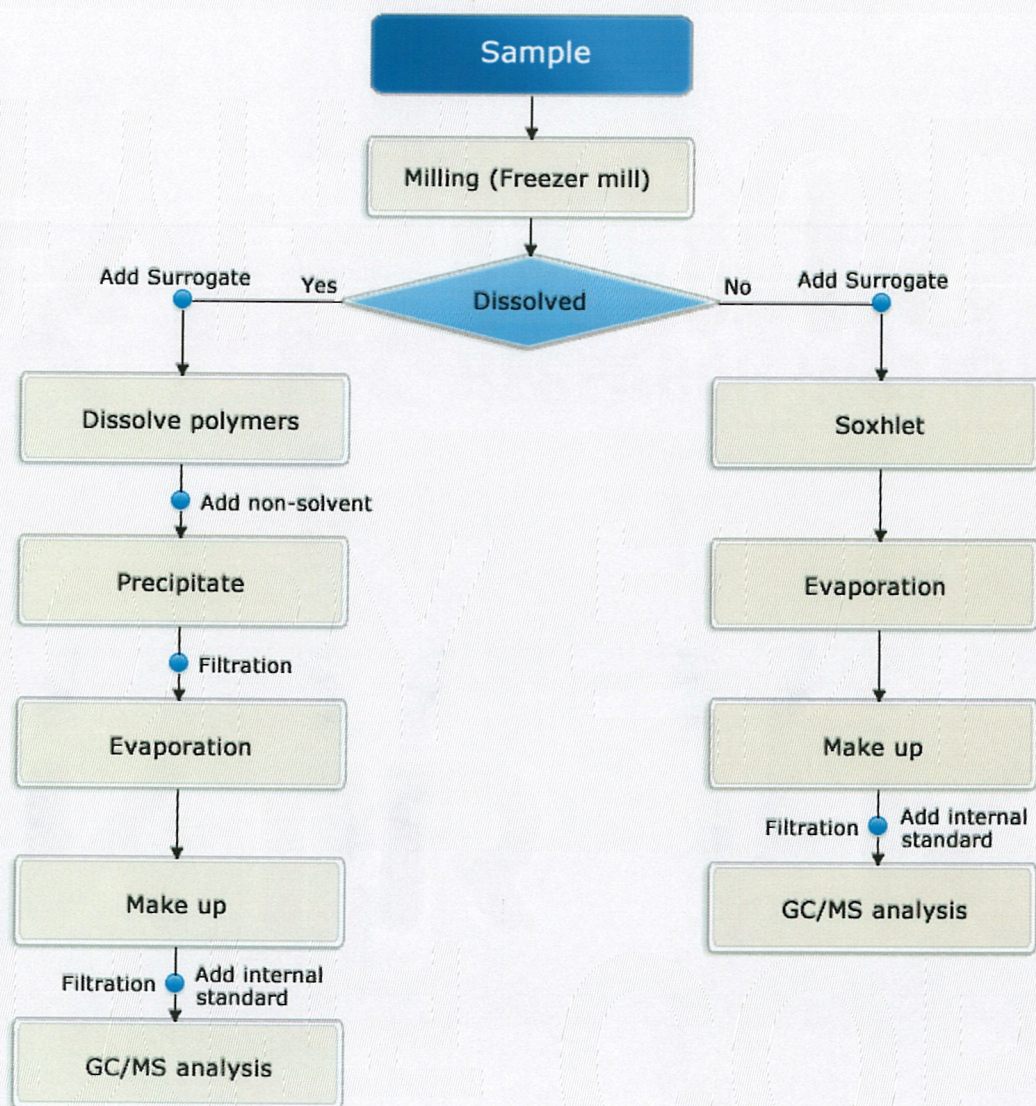
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PBBs, PBDEs : Tested by Park Jimin(Tel : 02-2092-3676)

Flow Chart of PBBs and PBDEs analysis





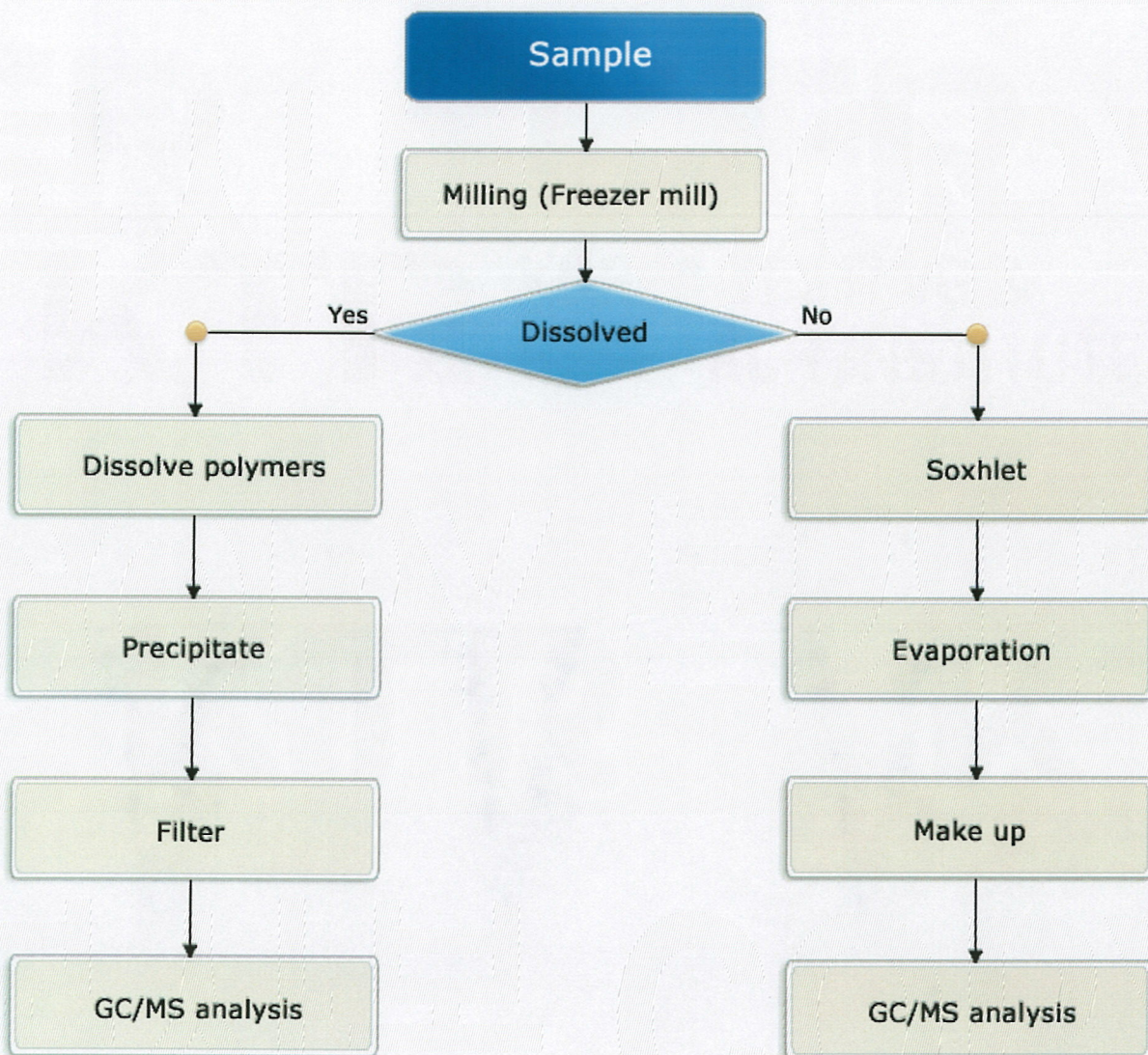
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Phthalates : Tested by Park Jimin(Tel : 02-2092-3676)

Flow Chart of Phthalates analysis





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Sample



- End of Report -