

No.: ETR25104682 Date: 05-Feb-2025

GLENCORE NIKKELVERK AS VESTERVEIEN 31, 4606 KRISTIANSAND, NORWAY

The following sample(s) was/were submitted and identified by the applicant as:

Sample Submitted By : GLENCORE NIKKELVERK AS

Sample Name : YEAR SAMPLE 2024, NICKEL METAL REGULAR CROWNS

Buyer/Order No. : 4500817119

Sample Receiving Date : 16-Jan-2025

Testing Period : 16-Jan-2025 to 05-Feb-2025

Test Requested : (1) As specified by client, with reference to RoHS 2011/65/EU Annex II and amending

Directive (EU) 2015/863 to determine Cadmium, Lead, Mercury, Cr(VI), PBBs, PBDEs,

DBP, BBP, DEHP, DIBP contents in the submitted sample(s).

(2) Please refer to next pages for the other item(s).

Test Results : Please refer to following pages.

Conclusion : (1) Based on the performed tests on submitted sample(s), the test results of Cadmium,

Lead, Mercury, Cr(VI), PBBs, PBDEs, DBP, BBP, DEHP, DIBP comply with the limits as set by RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU.

Troy Chang / Department Makager
Signed for and on behalf of Alwah
SGS TAIWAN LTD.
Chemical Laboratory - Taipei



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DINI CODE: ESEEZVS

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Test Part Description

No.1 : SILVER COLORED METAL

Test Result(s)

Test Item(s)	Method	Unit	MDL	Result	Limit
				No.1	
Cadmium (Cd)	With reference to IEC 62321-5: 2013,	mg/kg	2	n.d.	100
Lead (Pb)	analysis was performed by ICP-OES.	mg/kg	2	n.d.	1000
Mercury (Hg)	With reference to IEC 62321-4: 2013+	mg/kg	2	n.d.	1000
	AMD1: 2017, analysis was performed by ICP-OES.				
Hexavalent Chromium Cr(VI) (#2)	With reference to IEC 62321-7-1: 2015, analysis was performed by UV-VIS.	μg/cm²	0.1	n.d.	-
Monobromobiphenyl		mg/kg	5	n.d.	-
Dibromobiphenyl		mg/kg	5	n.d.	-
Tribromobiphenyl		mg/kg	5	n.d.	-
Tetrabromobiphenyl		mg/kg	5	n.d.	-
Pentabromobiphenyl		mg/kg	5	n.d.	-
Hexabromobiphenyl		mg/kg	5	n.d.	-
Heptabromobiphenyl		mg/kg	5	n.d.	-
Octabromobiphenyl		mg/kg	5	n.d.	-
Nonabromobiphenyl		mg/kg	5	n.d.	-
Decabromobiphenyl		mg/kg	5	n.d.	-
Sum of PBBs	With reference to IEC 62321-6: 2015,	mg/kg	1	n.d.	1000
Monobromodiphenyl ether	analysis was performed by GC/MS.	mg/kg	5	n.d.	1
Dibromodiphenyl ether		mg/kg	5	n.d.	1
Tribromodiphenyl ether		mg/kg	5	n.d.	-
Tetrabromodiphenyl ether		mg/kg	5	n.d.	-
Pentabromodiphenyl ether		mg/kg	5	n.d.	-
Hexabromodiphenyl ether		mg/kg	5	n.d.	1
Heptabromodiphenyl ether		mg/kg	5	n.d.	-
Octabromodiphenyl ether		mg/kg	5	n.d.	-
Nonabromodiphenyl ether		mg/kg	5	n.d.	-
Decabromodiphenyl ether		mg/kg	5	n.d.	-
Sum of PBDEs		mg/kg	1	n.d.	1000

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Dibutyl phthalate (DBP) Di-(2-ethylhexyl) phthalate (DBP) Diisodecyl phthalate (DIDP) (CAS No.: 26761-40-0, 68515-49-1) Diisondecyl phthalate (DINP) (CAS No.: 28553-12-0, 68515-48-0) Di-n-octyl phthalate (DINP) (CAS No.: 117-84-0) Di-n-octyl phthalate (DNOP) (CAS No.: 117-84-0) Di-n-octyl phthalate (DNOP) (CAS No.: 117-84-0) With reference to IEC 62321-2008, analysis was performed by GC/MS. Mg/kg 50 n.d. -	Test Item(s)	Method	Unit	MDL	Result	Limit
Dibutyl phthalate (DBP) Dice-thylhexyl) phthalate (DEHP) Disobetyl phthalate (DIDP) (CAS No.: 26761-40-0, 68515-49-1) Disonomyl phthalate (DINP) (CAS No.: 28553-12-0, 68515-48-0) Di-n-octyl phthalate (DINP) (CAS No.: 117-84-0) Di-n-octyl phthalate (DNOP) (CAS No.: 117-84-0) Major diastereoisomers identified (α- HBCDD, β- HBCDD, γ- HBCDD) (CAS No.: 25637-99-4, 3194-55-6 (134237-51-7, 134237-50-6, 134237-51-8) With reference to BS EN 14582: 2016, analysis was performed by IC. Mith reference to BS EN 14582: 2016, analysis was performed by IC. Mith reference to BS EN 14582: 2016, analysis was performed by IC. Mith reference to BS EN 14582: 2016, analysis was performed by IC. Mith reference to BS EN 14582: 2016, analysis was performed by IC. Mith reference to BS EN 14582: 2016, analysis was performed by IC. Mith reference to BS EN 14582: 2016, analysis was performed by IC. Mith reference to BS EN 14582: 2016, analysis was performed by IC. Mith reference to BS EN 14582: 2016, analysis was performed by IC. Mith reference to BS EN 14582: 2016, analysis was performed by IC. Mith reference to BS EN 14582: 2016, analysis was performed by IC. Mith reference to BS EN 14582: 2016, analysis was performed by IC. Mith reference to BS EN 14582: 2016, analysis was performed by IC. Mith reference to US EPA 3550C: 2007, analysis was performed by IC. Mith reference to US EPA 3550C: 2007, analysis was performed by GC/MS. Mith reference to US EPA 3550C: 2007, analysis was performed by GC/MS. Mith reference to US EPA 3550C: 2007, analysis was performed by GC/MS. Mith reference to ISO 18219-1: 2021, analysis was performed by GC/MS. Mith reference to ISO 18219-1: 2021, analysis was performed by FT-IR and Mith reference to ISO 18219-1: 2021, analysis was performed by FT-IR and Mith reference to ISO 18219-1: 2021, analysis was performed by FT-IR and Mith reference to ISO 18219-1: 2021, analysis was performed by FT-IR and Mith reference to ISO 18219-1: 2021, analysis was performed					No.1	
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Diisobutyl phthalate (DIBP) Diisodecyl phthalate (DIDP) (CAS No.: 26761-40-0, 68515-49-1) Diisononyl phthalate (DINP) (CAS No.: 28553-12-0, 68515-48-0) Di-n-octyl phthalate (DINP) (CAS No.: 117-84-0) Mith reference to IEC 62321-8: 2017, analysis was performed by GC/MS. mg/kg 50 n.d. - mg/	Dibutyl phthalate (DBP)		mg/kg	50	n.d.	1000
Diisodecyl phthalate (DIDP) (CAS No.: 26761-40-0, 68515-49-1) Diisononyl phthalate (DINP) (CAS No.: 28553-12-0, 68515-48-0) Di-n-octyl phthalate (DNOP) (CAS No.: 117-84-0) Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified (α- HBCDD, β- HBCDD, γ-HBCDD) (CAS No.: 25637-99-4, 3194-55-6 (134237-51-7, 134237-50-6, 134237-52-8)) Fluorine (F) (CAS No.: 14762-94-8) Bromine (Br) (CAS No.: 14362-44-8) Bromine (Br) (CAS No.: 14362-44-8) With reference to BS EN 14582: 2016, analysis was performed by IC. Bromine (Br) (CAS No.: 14362-44-8) With reference to BS EN 14582: 2016, analysis was performed by IC. Polychlorinated biphenyls (PCBs) With reference to BS EN 14582: 2016, analysis was performed by IC. Polychlorinated terphenyls (PCTs) With reference to US EPA 3550C: 2007, analysis was performed by GC/MS. With reference to US EPA 3550C: 2007, analysis was performed by GC/MS. With reference to US EPA 3550C: 2007, analysis was performed by GC/MS. Polychlorinated Paraffins(C10-C13) (SCCP) (CAS No.: 85535-84-8) Polyvinyl chloride (PVC) With reference to ASTM E1252: 2021, analysis was performed by GC/MS. With reference to ASTM E1252: 2021, analysis was performed by GC/MS. With reference to ASTM E1252: 2021, analysis was performed by GC/MS.	Di-(2-ethylhexyl) phthalate (DEHP)		mg/kg	50	n.d.	1000
26761-40-0, 68515-49-1) Diisononyl phthalate (DINP) (CAS No.: 28553-12-0, 68515-48-0) Di-n-octyl phthalate (DNOP) (CAS No.: 117-84-0) Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified (α- HBCDD, β- HBCDD, γ- HBCDD) (CAS No.: 25637-99-4, 3194-55-6 (134237-51-7, 134237-50-6, 134237-52-8)) Fluorine (F) (CAS No.: 14762-94-8) Bromine (Br) (CAS No.: 14762-94-8) With reference to BS EN 14582: 2016, analysis was performed by IC. Bromine (Br) (CAS No.: 10097-32-2) With reference to BS EN 14582: 2016, analysis was performed by IC. Bromine (Br) (CAS No.: 14362-44-8) With reference to BS EN 14582: 2016, analysis was performed by IC. Bromine (Br) (CAS No.: 14362-44-8) With reference to BS EN 14582: 2016, analysis was performed by IC. Polychlorinated biphenyls (PCBs) With reference to BS EN 14582: 2016, analysis was performed by IC. Polychlorinated terphenyls (PCBs) With reference to US EPA 3550C: 2007, analysis was performed by GC/MS. Polychlorinated terphenyls (PCTs) With reference to US EPA 3550C: 2007, analysis was performed by GC/MS. Polychlorinated terphenyls (PCTs) With reference to US EPA 3550C: 2007, analysis was performed by GC/MS. With reference to US EPA 3550C: 2007, analysis was performed by GC/MS. Polychlorinated terphenyls (PCTs) With reference to US EPA 3550C: 2007, analysis was performed by GC/MS. Polychlorinated Paraffins(C10-C13) (SCCP) (CAS No.: 85535-84-8) With reference to US EPA 3550C: 2007, analysis was performed by GC/MS. With reference to US EPA 3550C: 2007, analysis was performed by GC/MS. With reference to US EPA 3550C: 2007, analysis was performed by GC/MS. With reference to US EPA 3550C: 2007, analysis was performed by GC/MS. With reference to US EPA 3550C: 2007, analysis was performed by GC/MS. With reference to US EPA 3550C: 2007, analysis was performed by GC/MS. Polyvinyl chloride (PVC) With reference to ASTM E1252: 2021, analysis was performed by GC/MS.	Diisobutyl phthalate (DIBP)		mg/kg	50	n.d.	1000
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analysis was performed by FT-IR and			**	-	Negative	-
	, , , , , , , , , , , , , , , , , , , ,					
		Flame Test.				

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No.: ETR25104682 Date: 05-Feb-2025

GLENCORE NIKKELVERK AS VESTERVEIEN 31, 4606 KRISTIANSAND, NORWAY

Test Item(s)	Method	Unit	MDL	Result	Limit
				No.1	
Triphenyl tin (TPT)		mg/kg	0.03	n.d.	-
Tributyl tin (TBT)	With reference to ISO 17353: 2004,	mg/kg	0.03	n.d.	-
Dioctyl tin (DOT)	analysis was performed by GC/FPD.	mg/kg	0.03	n.d.	-
Dibutyl tin (DBT)		mg/kg	0.03	n.d.	-
Bis(tributyltin) oxide (TBTO) (CAS No.:	Calculated from the result of Tributyl	mg/kg	0.03 🛦	n.d.	-
56-35-9)	Tin (TBT).				
Beryllium (Be) (CAS No.: 7440-41-7)	W	mg/kg	2	n.d.	-
Bismuth (Bi) (CAS No.: 7440-69-9)	With reference to US EPA 3050B: 1996, analysis was performed by ICP-OES.	mg/kg	2	n.d.	-
Antimony (Sb) (CAS No.: 7440-36-0)	analysis was periorified by fer OLS.	mg/kg	2	n.d.	-

Note:

- 1. mg/kg = ppm; 0.1wt% = 0.1% = 1000ppm
- 2. MDL = Method Detection Limit
- 3. n.d. = Not Detected (Less than MDL)
- 4. "-" = Not Regulated
- 5. **= Qualitative analysis (No Unit)
- 6. Negative = Undetectable ; Positive = Detectable
- 7. (#2) =
 - a. The sample is positive for Cr(VI) if the Cr(VI) concentration is greater than 0.13 μ g/cm². The sample coating is considered to contain Cr(VI).
 - b. The sample is negative for Cr(VI) if Cr(VI) is n.d. (concentration less than 0.10 $\mu g/cm^2$). The coating is considered a non-Cr(VI) based coating
 - c. The result between 0.10 μ g/cm² and 0.13 μ g/cm² is considered to be inconclusive unavoidable coating variations may influence the determination.
- 8. ▲ : The MDL was evaluated for element / tested substance.

Conversion Formula : $AX = A \times F$

AX	Α	F
Bis(tributyltin)oxide (TBTO)	Tributyl Tin (TBT)	1.0276

Parameter Conversion Table: https://eecloud.sgs.com/Region TW/DocDownload.aspx?name=Others

9. Unless otherwise stated, the decision rule for conformity reporting is based on Binary Statement for Simple Acceptance Rule (w=0) stated in ILAC-G8:09/2019. According to this rule, the judgement of conformity is based on the comparing test results with limits.

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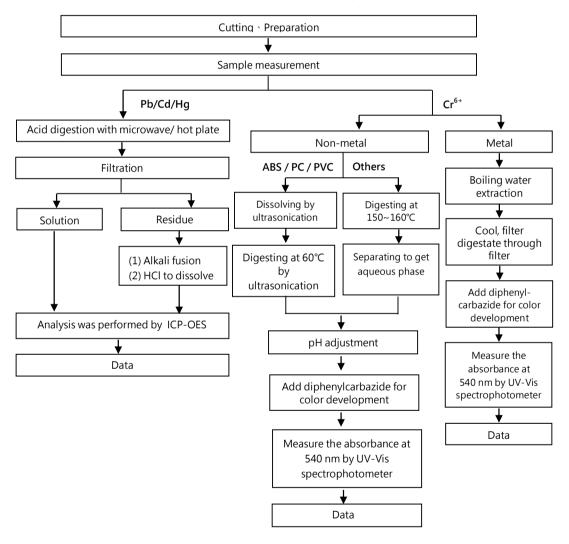
No.: ETR25104682 Date: 05-Feb-2025

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Analytical flow chart of heavy metal

These samples were dissolved totally by pre-conditioning method according to below flow chart.

(Cr⁶⁺ test method excluded)



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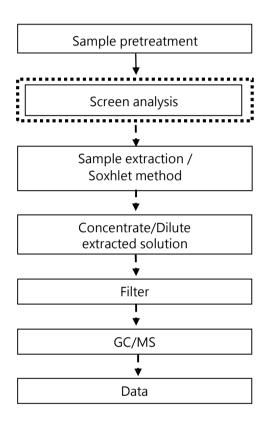


No.: ETR25104682 Date: 05-Feb-2025

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Analytical flow chart - PBBs / PBDEs

First testing process ____
Optional screen process ____
Confirmation process ___



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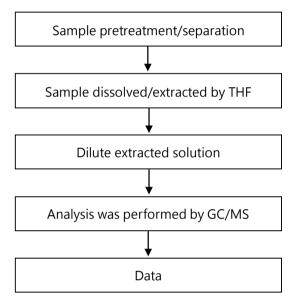


No.: ETR25104682 Date: 05-Feb-2025

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Analytical flow chart - Phthalate

[Test method: IEC 62321-8]



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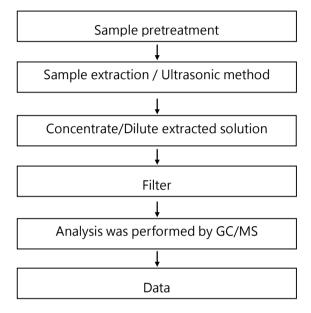
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No.: ETR25104682 Date: 05-Feb-2025

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Analytical flow chart - HBCDD



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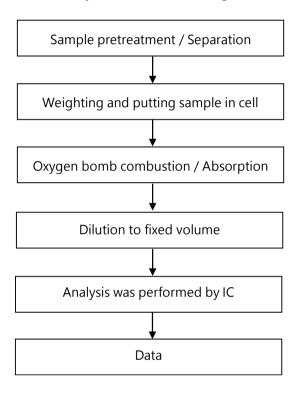
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No.: ETR25104682 Date: 05-Feb-2025

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Analytical flow chart - Halogen



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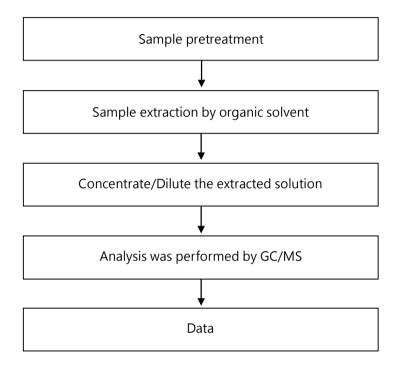


No.: ETR25104682 Date: 05-Feb-2025

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Analytical flow chart

* Apply to: PCBs, PCNs, PCTs, Mirex, Chlorinated Paraffins, DBBT



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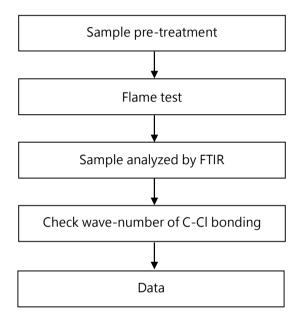
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No.: ETR25104682 Date: 05-Feb-2025

GLENCORE NIKKELVERK AS VESTERVEIEN 31, 4606 KRISTIANSAND, NORWAY

Analysis flow chart - PVC



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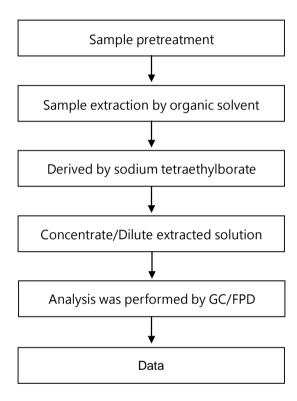
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Analytical flow chart - Organic-Tin



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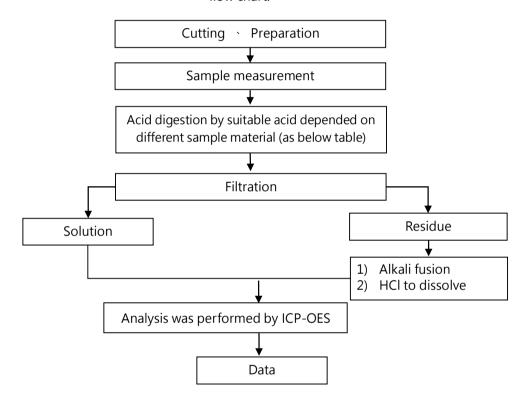


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Flow chart of digestion for the elements analysis performed by ICP-OES

These samples were dissolved totally by pre-conditioning method according to below flow chart.



Steel, copper, aluminum, solder	Aqua regia, HNO ₃ , HCl, HF, H ₂ O ₂
Glass	HNO ₃ /HF
Gold, platinum, palladium, ceramic	Aqua regia
Silver	HNO₃
Plastic	H ₂ SO ₄ , H ₂ O ₂ , HNO ₃ , HCl
Others	Added appropriate reagent to total digestion

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* The tested sample / part is marked by an arrow if it's shown on the photo. *

ETR25104682



** End of Report **

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