TEST REPORT

Report No. : **(8225)820-0002-078-E1**

Date Issued : 2025. 05. 16

Company Name : POSCO CO., LTD.

Address : 6261, Donghaean-ro, Nam-gu, Pohang-si, Gyeongsangbuk-do, Korea

Sample Description

Name / Type of Product : STS_STS_STS CR 400
Item No. / Part No. : -
Material/Color : -
Manufacturer/Vendor : -

Date Received : 2025. 04. 16
Test Period : 2025. 04. 16 ~ 2025. 05. 16

Test Type : Wet chemical analysis for restricted substances.
Test Site : Fixed Test Lab (RM908~915 126, Beolmal-ro, Dongan-gu, Anyang-si)
Test Method(s) : For the detail, please the following page(s).
Test Results(s) : For the detail, please the following page(s).

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Authorized by

Bureau Veritas Korea Co., Ltd.
Consumer Product Services

JIN KIM
Lab Manager / Bureau Veritas Korea CPS

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TEST REPORT

Report No. : **(8225)820-0002-078-E1**

Date Issued : 2025. 05. 16
Name / Type of Product : STS_STS_STS CR 400

TEST RESULT

Heavy Metals

Test Item	Test Method	Unit	MDL	Result
Lead (Pb)	With reference to International Standard IEC 62321-5: 2013, Determined by ICP-OES.	mg/kg	5	ND
Cadmium (Cd)		mg/kg	0.5	ND
Mercury (Hg)	With reference to International Standard IEC 62321-4: 2013 +AMD1:2017CVS, Determined by ICP-OES.	mg/kg	2	ND
Chromium VI (Cr VI)*	With reference to International Standard IEC 62321-7-1 2015, Determined by UV-Vis.	$\mu g/cm^2$	0.1	Negative

Flame Retardants-PBBs/PBDEs

Monobromobiphenyl	With reference to International Standard IEC 62321-6: 2015, Determined by GC-MS.	mg/kg	5	ND
Dibromobiphenyl		mg/kg	5	ND
Tribromobiphenyl		mg/kg	5	ND
Tetrabromobiphenyl		mg/kg	5	ND
Pentabromobiphenyl		mg/kg	5	ND
Hexabromobiphenyl		mg/kg	5	ND
Heptabromobiphenyl		mg/kg	5	ND
Octabromobiphenyl		mg/kg	5	ND
Nonabromobiphenyl		mg/kg	5	ND
Decabromobiphenyl		mg/kg	5	ND
Monobromodiphenyl ether	With reference to International Standard IEC 62321-6: 2015, Determined by GC-MS.	mg/kg	5	ND
Dibromodiphenyl ether		mg/kg	5	ND
Tribromodiphenyl ether		mg/kg	5	ND
Tetrabromodiphenyl ether		mg/kg	5	ND
Pentabromodiphenyl ether		mg/kg	5	ND
Hexabromodiphenyl ether		mg/kg	5	ND
Heptabromodiphenyl ether		mg/kg	5	ND
Octabromodiphenyl ether		mg/kg	5	ND
Nonabromodiphenyl ether		mg/kg	5	ND
Decabromodiphenyl ether		mg/kg	5	ND

Note / Key :

mg/kg = milligram(s) per kilogram = ppm = part(s) per million
ug/cm^2 = Microgram per square centimeter
MDL = Method detection limit
ND = Not detected
NA = Not applicable

* a. The sample is positive for CrVI if the CrVI concentration is greater than 0.13 ug/cm2. The sample coating is considered to contain CrVI.
b. The sample is negative for CrVI if CrVI is N.D. (concentration less than 0.10ug/cm2). The coating is considered a non-CrVI based coating.
c. The result between 0.10ug/cm2 and 0.13 ug/cm2 is considered to be inconclusive – unavoidable coating variations may influence the determination.

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Report No. : **(8225)820-0002-078-E1**

Date Issued : 2025. 05. 16

Name / Type of Product : STS_STS_STS CR 400

TEST RESULT

Phthalates

Test Item	Test Method	Unit	MDL	Result
Dibutyl phthalate (DBP)	With reference to IEC 62321-8: 2017, Determined by GC-MS & LC-MS.	mg/kg	50	ND
Bis(2-ethylhexyl) phthalate (DEHP)		mg/kg	50	ND
Diisobutyl phthalate (DIBP)		mg/kg	50	ND
Benzyl butyl phthalate (BBP)		mg/kg	50	ND
Di-n-pentyl phthalate (DnPP)		mg/kg	50	ND
Di(n-octyl) phthalate (DNOP)		mg/kg	50	ND
Diisononyl phthalate (DINP)		mg/kg	50	ND
Di-iso-decyl phthalate (DIDP)		mg/kg	50	ND
Dimethyl phthalate (DMP)		mg/kg	50	ND
Di-n-hexyl phthalate (DNHP)		mg/kg	50	ND
Dipropyl phthalate (DPrP)		mg/kg	50	ND

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List of Phthalates [European Parliament and Council Directive 2011/65/EU] :		
No.	**Name of Analyte(s)**	**CAS-No.**
1	Dibutyl phthalate (DBP)	84-74-2
2	Bis(2-ethylhexyl) phthalate (DEHP)	117-81-7
3	Diisobutyl phthalate (DIBP)	84-69-5
4	Benzyl butyl phthalate (BBP)	85-68-7
5	Di-n-pentyl phthalate (DnPP)	131-18-0
6	Di(n-octyl) phthalate (DNOP)	117-84-0
7	Diisononyl phthalate (DINP)	28553-12-0, 68515-48-0
8	Di-iso-decyl phthalate (DIDP)	26761-40-0 68515-49-1
9	Dimethyl phthalate (DMP)	131-11-3
10	Di-n-hexyl phthalate (DNHP)	84-75-3
11	Dipropyl phthalate (DPrP)	131-16-8

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TEST REPORT

Report No. : **(8225)820-0002-078-E1**

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Name / Type of Product : STS_STS_STS CR 400

TEST RESULT

Halogen Content

Test Item	Test Method	Unit	MDL	Result
Bromine (Br)	With reference to EN14582:2016, Determined by IC.	mg/kg	30	ND
Chlorine (Cl)		mg/kg	30	ND
Fluorine (F)		mg/kg	30	ND
Iodine (I)		mg/kg	30	ND

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TEST RESULT

Heavy Metals

Test Item	Test Method	Unit	MDL	Result
Arsenic (As)	With reference to US EPA3052, Determined by ICP-OES.	mg/kg	2	ND
Antimony(Sb)		mg/kg	2	ND
Beryllium(Be)		mg/kg	2	ND

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TEST RESULT

TSCA

Test Item	Test Method	Unit	MDL	Result
2,4,6-tris(tert-butyl)phenol	With reference to US EPA 3550C, Determined by LC/MS.	mg/kg	5	ND
Pentachlorothiophenol		mg/kg	5	ND
Phenol, isopropylated,phosphate(3:1)		mg/kg	5	ND
Decabromodiphenyl ether	With reference to International Standard IEC 62321-6: 2015, Determined by GC-MS.	mg/kg	5	ND
Hexachlorobutadiene(HCBD)	With reference to EPA 5021A/8260C, Determined by Headspace-GC/MS.	mg/kg	5	ND

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TEST RESULT

PFCs

Test Item	Chemical Full Name	CAS No.	Test Method	Unit	MDL	Result
Polychlorinated biphenyls (PCBs)	Polychlorinated biphenyls	1336-36-3	With reference to EPA 3550C, Determined by GC-MS.	mg/kg	5	ND
Polychlorinated terphenyls (PCTs)	Polychlorinated terphenyls	61788-33-8	With reference to EPA 3550C, Determined by GC-MS.	mg/kg	5	ND
Polychlorinated naphthalenes (PCNs)	Polychlorinated naphthalenes	70776-03-3		mg/kg	5	ND
	Trichloronaphthalene	1321-65-9		mg/kg	5	ND
	Tetrachloronaphthalene	1335-88-2		mg/kg	5	ND
	Pentachloronaphthalene	1321-64-8		mg/kg	5	ND
	Octachloronaphthalene	2234-13-1		mg/kg	5	ND
Short chain (C10 to C13) chlorinated paraffins (SCCPs)	Short-chain chlorinated paraffine (C10~13)	85535-84-8	With reference to BV In house method, Determined by GC/ECD.	mg/kg	50	ND
Perfluorooctanoic acid (PFOA)	PERFLUOROOCTANOIC ANHYDRIDE *	33496-48-9	With reference to EN14582:2016, Determined by IC.	mg/kg	-	ND
	Perfluorooctanoic acid	335-67-1	With reference to EPA 3550C, Determined by LC-MS&LC-MS-MS.	mg/kg	0.01	ND
	PERFLUOROOCTANOIC ACID AMMONIUM SALT	3825-26-1		mg/kg	0.01	ND
	Perfluorooctanoic acid sodium salt	335-95-5		mg/kg	-	ND
	Potassium perfluorooctanoate	2395-00-8		mg/kg	-	ND
	Silver perfluorooctanoate	335-93-3		mg/kg	-	ND
	Perfluorooctanoyl fluoride	335-66-0		mg/kg	-	ND
	Methyl Perfluorooctanoate	376-27-2		mg/kg	-	ND
	Other PFOA compounds	-		mg/kg	-	ND

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Test Item	Chemical Full Name	CAS No.	Test Method	Unit	MDL	Result
Perfluorooctane sulfonate (PFOS)	AMMONIUM HEPTADECAFLUOROOCTANESULPHONATE	29081-56-9	With reference to EPA 3550C, Determined by LC-MS&LC-MS-MS.	mg/kg	-	ND
	HEPTADECAFLUORO-1-OCTANESULFONIC ACID, COMPD. WITH DIETHANOLAMINE	70225-14-8		mg/kg	-	ND
	LITHIUM PERFLUOROOCTANE SULFONATE	29457-72-5		mg/kg	-	ND
	HEPTADECAFLUOROOCTANESULFONIC ACID	1763-23-1		mg/kg	0.01	ND
	POTASSIUM PERFLUOROOCTANESULFONATE	2795-39-3		mg/kg	-	ND
PerFluorinated Carboxylic acid (PFCA)	PFPeDA (Pentadecanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,15-nonacosafluoro-) *	141074-63-7	With reference to EN14582:2016, Determined by IC.	mg/kg	-	ND
	PFHpDA (Perfluoroheptadecanoic acid) *	57475-95-3		mg/kg	-	ND
	PFNDA (Heptatriacontafluorononadecanoic acid)*	133921-38-7		mg/kg	-	ND
	C20 PFCA (Nonatriacontafluoroicosanoic acid)*	68310-12-3		mg/kg	-	ND
	C21 PFCA*	-		mg/kg	-	ND
	PFHxA (Perfluorohexanoic acid)	307-24-4	With reference to EPA 3550C, Determined by LC-MS&LC-MS-MS.	mg/kg	0.01	ND
	PFHxDA (Perfluorohexadecanoic acid)	67905-19-5		mg/kg	0.01	ND
	PFODA (Perfluorostearic acid)	16517-11-6		mg/kg	0.01	ND

Test Item	Chemical Full Name	CAS No.	Test Method	Unit	MDL	Result

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PerFluorinated SulfonAte (PFSA)	PFOS (Perfluoroctyl Sulfonate)	1763-23-1	With reference to EPA 3550C, Determined by LC-MS&LC-MS-MS.	mg/kg	0.01	ND
	PFBS (Perfluorobutyl Sulfonate)	375-73-5		mg/kg	0.01	ND
	PFHxS (Perfluorohexyl Sulfonate)	355-46-4		mg/kg	0.01	ND

Note / Key :

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Remark :

* The concentration of the substance is calculated on the basis of the contents of fluorine

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TEST REPORT

Report No. : **(8225)820-0002-078-E1**

Date Issued : 2025. 05. 16

Name / Type of Product : STS_STS_STS CR 400

TEST RESULT

Asbestos Content

Test Item	Test Method	Unit	MDL	Result
Chrysotile (CAS NO.: 012001-29-5)	Reference to ISO 22262-1:2012 and NIOSH 9000:1994, determination by Polarizingmicroscope (PLM) and X-ray diffractometer (XRD).	%	0.1	Negative
Amosite (CAS NO.: 012172-73-5)		%	0.1	Negative
Crocidolite (CAS NO.: 012001-28-4)		%	0.1	Negative
Anthophyllite (CAS NO.: 077536-67-5)		%	0.1	Negative
Tremolite (CAS NO.: 077536-68-6)		%	0.1	Negative
Actinolite (CAS NO.: 077536-66-4)		%	0.1	Negative

Note / Key :

mg/kg = milligram(s) per kilogram = ppm = part(s) per million
MDL = Method detection limit
ND = Not detected
NA = Not applicable
% = percent
10 000 mg/kg = 1 %

Remark :

1. The result only relates to the tested item. The report shall not be reproduced except full without the written approval of the testing laboratory. Parameters which are not covered by the lab's testing scope are subcontracted to laboratories with government approval. The accreditation relates to competences given in the accreditation certificate.
2. Samples test were conducted as per applicant's request.

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TEST REPORT

Report No. : **(8225)820-0002-078-E1**

Date Issued : 2025. 05. 16
Name / Type of Product : STS_STS_STS CR 400

TEST RESULT

Ozone Depleting Substances

Test Item	Test Method	Unit	MDL	Result
Trichlorofluoromethane (CFC-11)	With reference to EPA 5021A/8260C, Determined by Headspace-GC/MS.	mg/kg	1	ND
Dichlorodifluoromethane (CFC-12)		mg/kg	1	ND
Chlorotrifluoromethane (CFC-13)		mg/kg	1	ND
Pentachlorofluoroethane (CFC-111)		mg/kg	1	ND
Tetrachlorodifluoroethane (CFC-112)		mg/kg	1	ND
Trichlorotrifluoroethane (CFC-113)		mg/kg	1	ND
Dichlorotetrafluoroethane (CFC-114)		mg/kg	1	ND
Chloropenatafluoroethane (CFC-115)		mg/kg	1	ND
Hexachlorodifluoropropane (CFC-212)		mg/kg	1	ND
Pentachlorotrifluoropropane (CFC-213)		mg/kg	1	ND
Tetrachlorotetrafluoropropane (CFC-214)		mg/kg	1	ND
Trichloropentafluoropropane (CFC-215cb)		mg/kg	1	ND
Dichlorohexafluoropropane (CFC-216)		mg/kg	1	ND
Chloroheptafluoropropane (CFC-217)		mg/kg	1	ND
Hydrochlorofluorocarbon-21		mg/kg	1	ND
Hydrochlorofluorocarbon-22		mg/kg	1	ND
Hydrochlorofluorocarbon-31		mg/kg	1	ND
Hydrochlorofluorocarbon-121		mg/kg	1	ND
Hydrochlorofluorocarbon-122		mg/kg	1	ND
Hydrochlorofluorocarbon-123		mg/kg	1	ND
Hydrochlorofluorocarbon-124		mg/kg	1	ND
Hydrochlorofluorocarbon-131		mg/kg	1	ND
Hydrochlorofluorocarbon-132b		mg/kg	1	ND
Hydrochlorofluorocarbon-133a		mg/kg	1	ND
Hydrochlorofluorocarbon-141b		mg/kg	1	ND
Hydrochlorofluorocarbon-142b		mg/kg	1	ND
Hydrochlorofluorocarbon-151		mg/kg	1	ND
Hydrochlorofluorocarbon-224ca		mg/kg	1	ND
Hydrochlorofluorocarbon-225ca		mg/kg	1	ND

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Test Item	Test Method	Unit	MDL	Result
Hydrochlorofluorocarbon-225cb	With reference to EPA 5021A/8260C, Determined by Headspace-GC/MS.	mg/kg	1	ND
Hydrochlorofluorocarbon-226da		mg/kg	1	ND
Hydrochlorofluorocarbon-253fb		mg/kg	1	ND
Hydrochlorofluorocarbon-261ba		mg/kg	1	ND
Methyl bromide (Halon-1001)		mg/kg	1	ND
Bromochloromethane (Halon-1011)		mg/kg	1	ND
Dibromodifluoromethane (Halon-1202)		mg/kg	1	ND
Bromochlorodifluoromethane (Halon-1211)		mg/kg	1	ND
Bromotrifluoromethane (Halon-1301)		mg/kg	1	ND
Dibromotetrafluoroethane (Halon-2402)		mg/kg	1	ND
Dibromodifluoroethane (HBFC-132B2)		mg/kg	1	ND
Bromotrifluoroethane (HBFC-133B1)		mg/kg	1	ND
Bromofluoroethane (HBFC-151B1)		mg/kg	1	ND
Dibromofluoroethane (HBFC-21B2)		mg/kg	1	ND
Bromodifluoroethane (HBFC-22B1)		mg/kg	1	ND
Bromofluoropropane (HBFC-271B1)		mg/kg	1	ND
Bromofluoromethane (HBFC-31B1)		mg/kg	1	ND
Fluoroform (HFC-23)		mg/kg	1	ND
Fluoromethance (HFC-41)		mg/kg	1	ND
Pentafluoroethane (HFC-125)		mg/kg	1	ND
Tetrafluoroethane (HFC-134)		mg/kg	1	ND
Tetrafluoroethane (HFC-134a)		mg/kg	1	ND
Trifluoroethane (HFC-143)		mg/kg	1	ND
Trifluoroethane (HFC-143a)		mg/kg	1	ND
Difluoroethane (HFC-152a)		mg/kg	1	ND
Heptafluoropropane (HFC-227a)		mg/kg	1	ND
Hexafluoropropane (HFC-236ea)		mg/kg	1	ND
Hexafluoropropane (HFC-236fa)		mg/kg	1	ND
Pentafluoropropane (HFC-245ca)		mg/kg	1	ND
Dihydrooctafluorobutane (HFC-338)		mg/kg	1	ND
2-Perfluoromethylpentane		mg/kg	1	ND

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Test Item	Test Method	Unit	MDL	Result
Carbon tetrafluoride	With reference to EPA 5021A/8260C, Determined by Headspace-GC/MS.	mg/kg	1	ND
Nonafluro-2-(trifluoromethyl)butane		mg/kg	1	ND
Perfluoro-1-butane		mg/kg	1	ND
Perfluorobutane (Decafluorobutane)		mg/kg	1	ND
Perfluorocyclobutane		mg/kg	1	ND
Perfluoroethane (Hexafluoroethane)		mg/kg	1	ND
Perfluorohexane (Tetradecafluorohexane)		mg/kg	1	ND
Perfluoroisobutene		mg/kg	1	ND
Perfluoropentane (Dodecafluoropentane)		mg/kg	1	ND
Perfluoropropane (Octafluoropentane)		mg/kg	1	ND
1, 1, 1,2-Tetrachloroethane		mg/kg	1	ND
1, 1, 2,2-Tetrachloroethane		mg/kg	1	ND
1, 1, 2,2-Tetrachloroethane		mg/kg	1	ND
1, 1,2-Trichloroethane		mg/kg	1	ND
1, 1-Dichloroethane		mg/kg	1	ND
1, 1-Dichloroethene		mg/kg	1	ND
1, 1-Dichloropropene		mg/kg	1	ND
1, 2,3-Trichloropropane		mg/kg	1	ND
1, 2-Dichloroethane		mg/kg	1	ND
1, 2-Dichloropropane		mg/kg	1	ND
1, 3-Dichloropropane		mg/kg	1	ND
2, 2-Dichloropropane		mg/kg	1	ND
Carbon tetrachloride		mg/kg	1	ND
Chloroethane		mg/kg	1	ND
Chloroform		mg/kg	1	ND
cis-1,2-Dichloroethene		mg/kg	1	ND
cis-1,3-Dichloropropene		mg/kg	1	ND
Dichloromethane		mg/kg	1	ND
Hexachlorobutadiene		mg/kg	1	ND
Methyl chloride		mg/kg	1	ND
Methylchloroform		mg/kg	1	ND

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Test Item	Test Method	Unit	MDL	Result
Tetrachloroethene	With reference to EPA 5021A/8260C, Determined by Headspace-GC/MS.	mg/kg	1	ND
trans-1 ,2-Dichlororethene		mg/kg	1	ND
trans-1 ,3-Dichloropropene		mg/kg	1	ND
Trichloroethylene		mg/kg	1	ND
1-Bromopropane (n-Propyl bromide)		mg/kg	1	ND
Sulfur hexafluoride		mg/kg	1	ND
Trifluoromethyl iodide		mg/kg	1	ND

Note / Key :

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Name / Type of Product : STS_STS_STS CR 400

TEST RESULT

Other(s)

Test Item	Test Method	Unit	MDL	Result
Dimethylfumarate(DMFu)	With reference to EPA 3550C, Determined by GC-MS.	mg/kg	0.1	ND

Note / Key :

mg/kg = milligram(s) per kilogram = ppm = part(s) per million
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NA = Not applicable

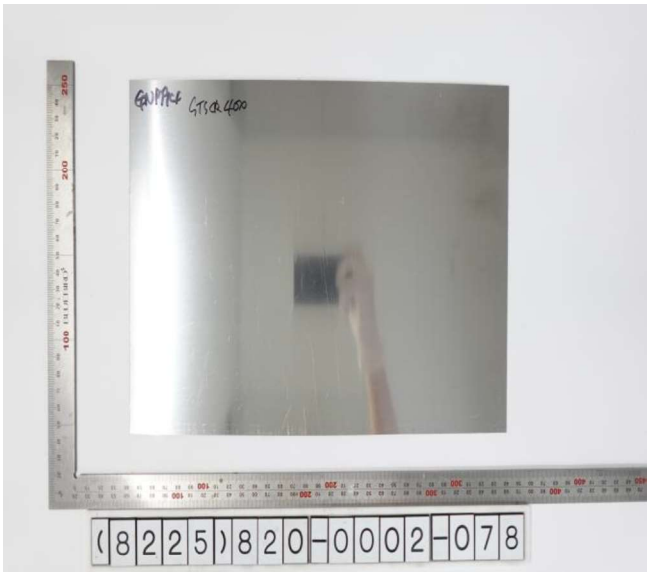
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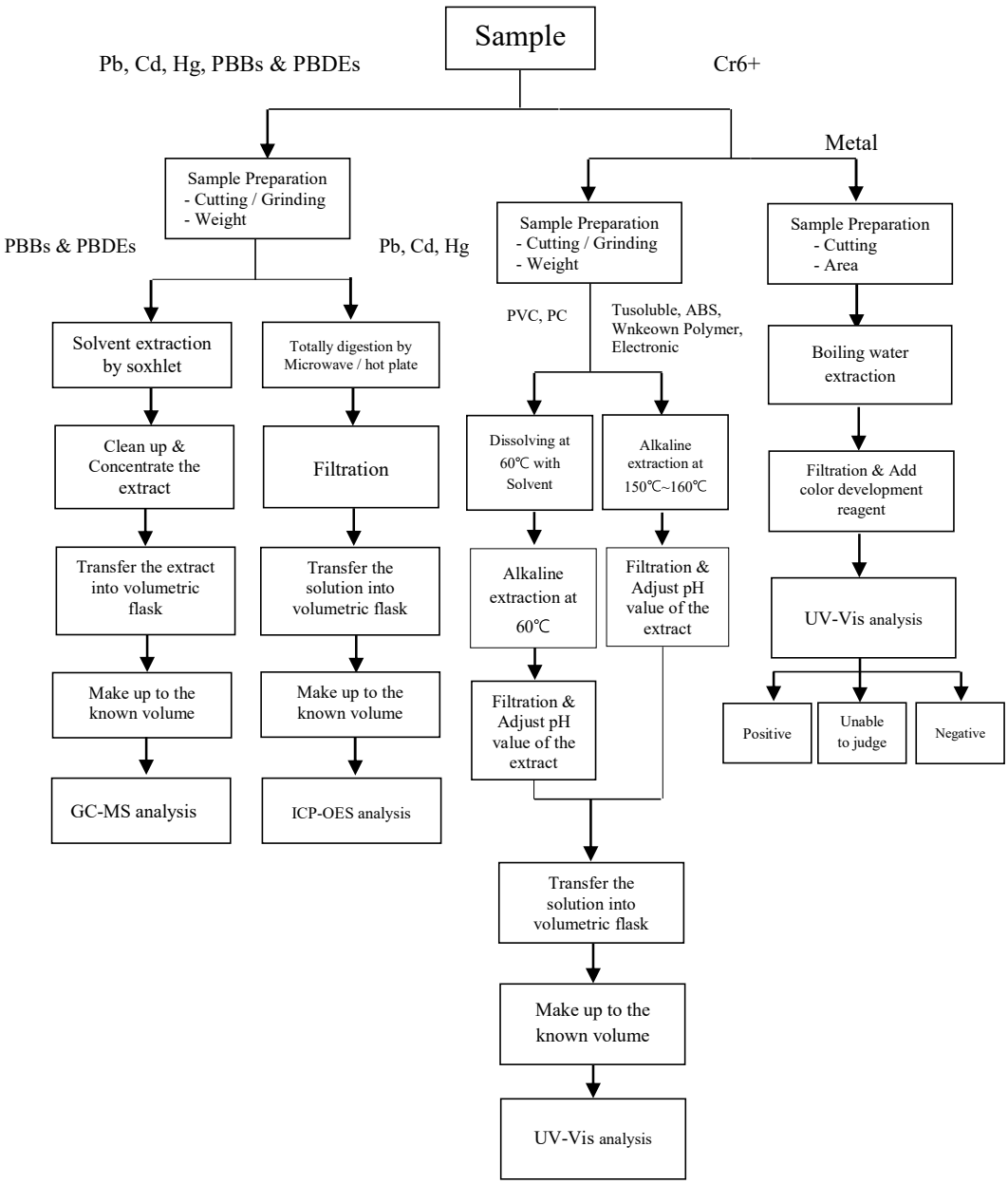
Name / Type of Product : STS_STS_STS CR 400

Photo of the Submitted Sample



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Test Flowchart of Heavy Metals and Flame Retardants Content [European Parliament and Council Directive 2011/65/EU] :



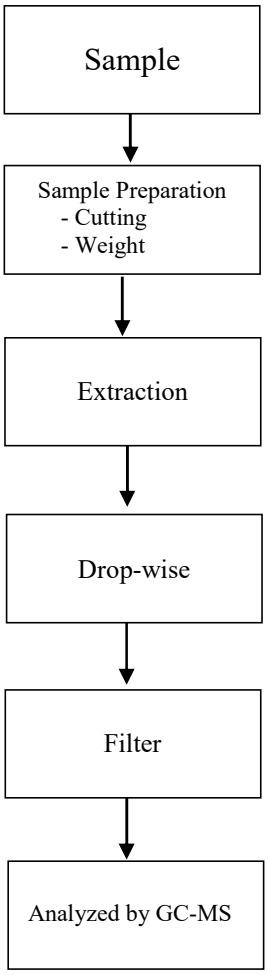
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Test Flowchart of Phthalates Content



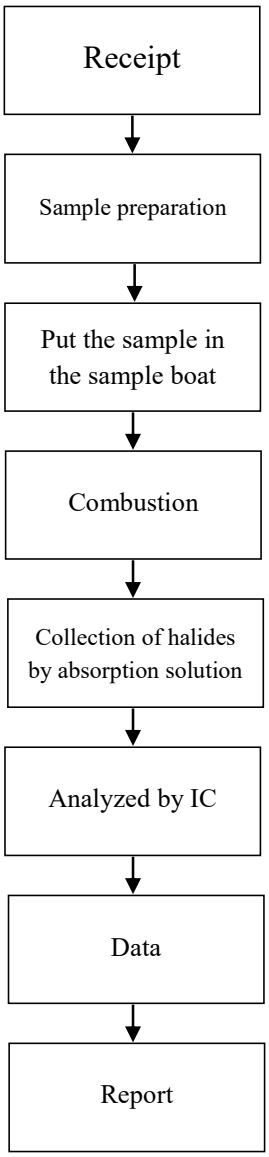
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Test Flowchart of Halogen Content



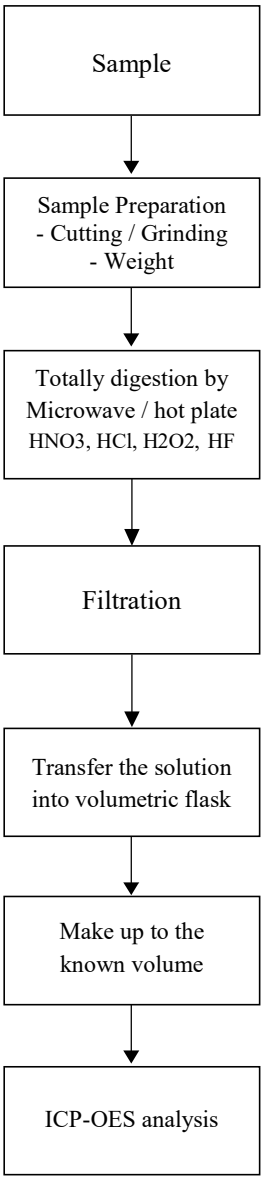
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Test Flowchart of Inorganic Element Content



- End of Report -

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