

Green Label Testing

SETSCO is recognised by Singapore Environment Council (SEC) for Green Label Testing. Our advance instrumentation and well-trained, experienced staff is able to test a wide variety of products according to SEC requirement standards.

Our Scope of Testing for Products under the Singapore Green Label Scheme (SGLS) according to SEC Requirement Standards:

| SGLS Categories according to SEC Requirement Standards | |
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| SGLS Category 032 | Paints & surface coatings |
| SGLS Category 035 | Products made from recycled / renewable fibres |
| SGLS Category 039 | Carpets, adhesives, carpet cushion |
| SGLS Category 040 | Adhesives / sealants |
| SGLS Category 041 | Panel boards / wallboards |
| SGLS Category 042 | Wall coverings |
| SGLS Category 043 | Made from 50% recycled content |



Our Accreditation



Accredited Laboratory Scheme
Accredited Fields of Testing:
- Chemical & Biological Testing
(LA-1994-0068-A)



■ RoHS & Reach Compliance Testing

Our capability includes a wide range of “green tests” on electrical & electronic products components to meet European Union Regulations and “Green Procurement” requirements.

| Verification to the following Standards: | |
|--|--|
| RoHS - 2002/95/EC | Azocolourants - 2002/61/EC |
| US EPA - 3052, 3050B, 6010B, 3060A | Packaging & Packaging Waste - 1994 / 62 / EC |
| WEEE - 2002/96/EC | End of Life Vehicles - 2000/53/EC |
| Phthalates - 2005/84/EC | |

■ Hazardous Substances

Our advance instrumentation is able to detect

- Halogenated Organic Compounds (PCBs, PCNs, PCTs, PBBs, PBDEs, PVCs, C10-13, PFOA, PFOS)
- Heavy Metals (e.g. Cadmium, Total Chromium, Lead, Mercury)
- Phthalates (e.g. DBP, DEHP, DEP, BBP, DNOP, DINP, DIDP)
- Volatile Organic Compounds (VOCs)
- Ozone Depleting Substances (CFCs, HCFCs, others)
- Others (Asbestos, Specific Benzotriazole, Red Phosphorous, Specific Organic Tin Compounds, Azo dye, etc)

Green Label Testing

Our Instrumentation

■ Gas Chromatography / Mass Spectrometry (GC/MS)

GC/MS is the combination of two analytical methods into versatile technique for the identification of complex volatile materials useful in the analysis of Volatile Organic Compounds (VOCs).



■ Inductively Coupled Plasma - Mass Spectrometry (ICP - MS)

■ Inductively Coupled Plasma - Optical Emission Spectroscopy (ICP-OES)

ICP-MS and ICP-OES are techniques used for analysing the concentration of metallic elements (heavy metals such as Pb, Cd, Hg) in green products. This high sensitivity analysis is able to detect up to parts per trillion level or better. Solid samples are digested in appropriate acids formulation to produce a solution for analysis. This sample solution is often diluted in water to obtain a final specimen suitable for analysis.

■ Ion Chromatography (IC)

IC is the separation and quantitative analysis of anions and cations in ionic solution using the ion exchange method of liquid chromatography (LC). The chromatographic process separates the different ions within the sample. The amount of anion/cation is measured by the change in conductivity as the species passes through the detector.

■ Liquid Chromatography / Mass Spectrometry (LC/MS)

LC/MS is the marriage of two analytical methods into versatile technique for the identification of complex organic materials. Liquid chromatography (LC) effectively separates the different constituents of the sample for the subsequent analysis and identification by mass spectrometry (MS). LC/MS is very sensitive in Organic Compound analysis for APEOs, PFOAs and surfactants.



SETSCO SERVICES PTE LTD

18, Teban Gardens Crescent
Singapore 608925
T (65) 6566 7777
F (65) 6566 7718
www.setsco.com
marketing@setsco.com

Biological & Chemical Technology Division

For any enquiries on Green Label Testing, please contact:

Ms. Yen Nee Ooi 68952282 (DID) Ooiyn@setsco.com / Microcon@setsco.com