



Promet Metals Testing Laboratory Limited

利保金屬檢測有限公司

ADDRESS : 2/F, Technology & Logistics Center, 16 Dai Fat Street, Tai Po Industrial Estate
地址 Tai Po, New Territories, Hong Kong
香港新界大埔工業邨大發街十六號科技及物流中心二樓

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CLIENTELE : Public
服務對象 公眾



Scope of Accreditation
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Page 1 of 7
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ACCREDITED TEST : Chemical Testing 化學測試

CATEGORY Construction Materials 建築材料

認可測試類別 Environmental Testing 環境測試

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Chemical Testing 化學測試		
ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Metals and Metallic alloys :- - Aluminum	Elemental Composition :- - Copper - Iron - Lead - Magnesium - Manganese - Nickel - Silicon - Titanium - Zinc - Vanadium - Chromium - Tin	GB/T 7999-2007
- Aluminum alloys	- Copper - Iron - Lead - Magnesium - Manganese - Nickel - Silicon - Tin - Titanium - Zinc	GB/T 7999-2007
- Zinc	- Aluminum - Copper - Iron - Lead - Tin - Cadmium	In-house method TP020 (ICP-OES)
- Zinc alloys	- Aluminum - Magnesium - Cadmium - Tin - Copper - Iron - Lead	BS EN ISO 3815-1:2005 (Zn-60-M)

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Metals and Metallic alloys :- (cont'd)	Elemental Composition :- (cont'd)	
- Carbon steel (250, 460, 500B, 500C, 43C (hollow section), 43D (hollow section), and 43EE (hollow section))	- Carbon - Sulfur - Phosphorus - Nitrogen - Copper - Manganese - Chromium - Molybdenum - Vanadium - Nickel - Silicon	In-house method TP008 (Spark OES)
- Carbon steel	- Phosphorus - Copper - Manganese - Chromium - Molybdenum - Vanadium - Nickel - Silicon	In-house method TP034 (ICP-OES)
	- Carbon - Sulfur	In-house method TP015 (Carbon Sulfur Analyzer)
	- Nitrogen	In-house method TP016 (Nitrogen Analyzer)
- Carbon steel (250, 460, 500B and 500C)	Carbon equivalent value	In-house method TP019 (by calculation)

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Metals and Metallic alloys :- (cont'd)	Elemental Composition :- (cont'd)	
- Stainless steel (201, 304, 304L, 310, 316, 316L, 430 and 431)	- Carbon - Silicon - Manganese - Phosphorus - Sulfur - Nickel - Chromium - Molybdenum	In-house method TP007 (Spark OES)
- Stainless steel	- Silicon - Manganese - Phosphorus - Nickel - Chromium - Molybdenum	In-house method TP035 (ICP-OES)
	- Carbon - Sulfur	In-house method TP036 (Carbon Sulfur Analyzer)
	- Nitrogen	In-house method TP037 (Nitrogen Analyzer)

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Construction Materials 建築材料		
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Steel (chemical analysis) :- - Carbon steel (250, 460, 500B, 500C, 43C (hollow section), 43D (hollow section), and 43EE (hollow section))	Elemental Composition :- - Carbon - Sulfur - Phosphorus - Nitrogen - Copper - Manganese - Chromium - Molybdenum - Vanadium - Nickel - Silicon	In-house method TP008 (Spark OES)
- Carbon steel	- Phosphorus - Copper - Manganese - Chromium - Molybdenum - Vanadium - Nickel - Silicon	In-house method TP034 (ICP-OES)
	- Carbon - Sulfur	In-house method TP015 (Carbon Sulfur Analyzer)
	- Nitrogen	In-house method TP016 (Nitrogen Analyzer)
- Carbon steel (250, 460, 500B and 500C)	Carbon equivalent value	In-house method TP019 (by calculation)

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<p>Steel (chemical analysis) :- (cont'd)</p> <p>- Stainless steel (201, 304, 304L, 310, 316, 316L, 430 and 431)</p> <p>- Stainless steel</p>	<p>Elemental Composition :- (cont'd)</p> <p>- Carbon - Silicon - Manganese - Phosphorus - Sulfur - Nickel - Chromium - Molybdenum</p> <p>- Silicon - Manganese - Phosphorus - Nickel - Chromium - Molybdenum</p> <p>- Carbon - Sulfur</p> <p>- Nitrogen</p>	<p>In-house method TP007 (Spark OES)</p> <p>In-house method TP035 (ICP-OES)</p> <p>In-house method TP036 (Carbon Sulfur Analyzer)</p> <p>In-house method TP037 (Nitrogen Analyzer)</p>
<p>Solder alloy (chemical analysis) :-</p> <p>- Tin based lead-free alloy (in form of wire or ribbon)</p>	<p>Elemental Composition :-</p> <p>- Lead</p>	<p>In-house Method TP039 (ICP-OES)</p>
<p>Metallic materials</p>	<p>Bond property of steel reinforcing bars by surface geometry measurement</p>	<p>CS2: 2012 + Amd. 1/2018 + Amd. 2/2018 Cl. 1.7.2, 6.1 & 6.7 BS EN ISO 15630-1: 2002 Cl. 10, 11.2 & 11.3 in conjunction with the following specification(s): BS 4449: 2005 + A3: 2016 Cl. 7.4 & 9 BS 4482: 2005 + Amd. 1 Cl. 7.4.2</p>

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Tap water and drinking water	Physical Examination :- - pH Value - Turbidity - Conductivity - Colour Non-metallic Constituents :- - Residual Free Chlorine Trace Metals :- - Antimony - Chromium - Cadmium - Copper - Lead - Nickel - Iron - Aluminium	APHA 23e 4500-H ⁺ B APHA 23e 2130 B (Nephelometric Method) APHA 23e 2510 B APHA 23e 2120 B (Visual Comparison) In-house method TP043 (DPD Colorimetric Method) In-house Method TP047 (ICP-MS)