



**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



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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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<b>Chemical Testing 化學測試</b>		
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 - Copper - Nitrogen	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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<b>Construction Materials 建築材料</b>		
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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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Metallic materials	Bond property of steel reinforcing bars by surface geometry measurement	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
	Mass per metre of steel reinforcing bars, wire rods or wire	BS EN ISO 15630-1: 2019 Cl. 12 CS2: 2012 + Amd. 2/2018 Cl. 1.4, 6.1 & 6.2 in conjunction with the following specification(s): BS 4449: 2005 + A2: 2009 + A3: 2016 Cl. 7.2.2, 7.3 & 9 BS 4482: 2005 + Amd. 1: 2007 Cl. 7.3 & 9
	Rebend test of steel reinforcing bars, wire rods or cold reduced wires for reinforcement of concrete	BS EN ISO 15630-1: 2019 Cl. 7 CS2: 2012 + Amd. 2/2018 Cl. 1.6.3, 6.1 & 6.5 in conjunction with the following specification(s): BS 4449: 2005 + A2: 2009 + A3: 2016 Cl. 7.2.5 & 9 BS 4482: 2005 + Amd. 1: 2007 Cl. 7.2.4 & 9
	Tensile test of reinforcing bars, wire rods or cold reduced wires for reinforcement of concrete in the force range 20 kN - 2000 kN	BS EN ISO 6892-1: 2019 Cl. 10.3.3 Method B in conjunction with the following specification(s): BS 4449: 2005 + A2: 2009 + A3: 2016 Cl. 7.2.2, 7.2.3, 8.1.3.1 & 9 BS 4482: 2005 + Amd. 1: 2007 Cl. 8.1.3.1 & 9 CS2: 2012 + Amd. 1/2016 + Amd. 2/2018 Cl. 1.6.2, 6.1 & 6.4



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<b>Environmental Testing 環境測試</b>		
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Water and Wastewater	Physical Examination :-  - pH Value  - Turbidity  - Conductivity  - Colour  - Total Solids  - Total Dissolved Solids  - Total Suspended Solids (dried at 103-105°C)  Non-metallic Constituents: -  - Residual Free Chlorine	APHA 23e 4500 H <sup>+</sup> B  APHA 23e 2130 B (Nephelometric Method)  APHA 23e 2510 B  APHA 23e 2120 B (Visual Comparison)  APHA 23e 2540 B  APHA 23e 2540 C  APHA 23e 2540 D   In house method TP043 (DPD Colorimetric Method)

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Water and Wastewater	- Trace Metals :-  - Antimony - Chromium - Cadmium - Copper - Lead - Nickel - Iron - Aluminum - Arsenic - Barium - Beryllium - Boron - Cobalt - Manganese - Mercury - Molybdenum - Selenium - Silver - Strontium - Thallium - Tin - Titanium - Vanadium - Zinc	In-house Method TP047 (ICP-MS)

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Water and Wastewater	Microbiological tests: -  - Heterotrophic plate count  - Coliform count  - Faecal coliform  - E. coli  - E. coli	APHA 23ed 9215A and 9215B (Pour plate method at 35 °C)  DoE (1983) The Bacteriological Examination of Drinking Water Supplies 1982 (Membrane Filtration Procedure: Sections 7.8, 7.9.4.1; Bacterial Confirmation: Section 7.9.4.3)  DoE (1983) The Bacteriological Examination of Drinking Water Supplies 1982 (Membrane Filtration Procedure: Sections 7.8, 7.9.4.2; Bacterial Confirmation: Section 7.7.6.3)
Drinking Water, Treated Bathing Water, Water for Human Use and Consumption	- Enumeration of Legionella including Legionella pneumophila  - Enumeration of Legionella including Legionella pneumophila	DoE (1983) The Bacteriological Examination of Drinking Water Supplies 1982, Membrane Filtration Procedure: Sections 7.8, 7.9.4.2; Bacterial Confirmation: 7.9.4.4  DoE (1983) The Bacteriological Examination of Drinking Water Supplies 1982, Membrane Filtration Procedure: Sections 7.8, 7.9.4.2; Bacterial Confirmation: in-situ urease test
Water, Wastewater, and Cooling Tower Water	- Enumeration of Legionella including Legionella pneumophila	ISO11731:2017 (Direct plating method)  ISO11731:2017 (Direct membrane filtration method)  AS3896:2017

