

Schedule

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LABORATORY LOCATION/ CENTRAL OFFICE:	Professional Testing Services Sdn Bhd 7, Jalan Mega 1, Taman Perindustrian Nusa Cemerlang, 79200 Iskandar Puteri, Johor , 79200, JOHOR MALAYSIA
	
ACCREDITED SINCE :	03 JANUARY 2006
FIELD(S) OF TESTING:	MECHANICAL MECHANICAL (METALLURGICAL)

This laboratory has demonstrated its technical competence to operate in accordance with MS ISO/IEC 17025:2017 (ISO/IEC 17025:2017).

This laboratory's fulfillment of the requirements of ISO/IEC 17025 means the laboratory meets both the technical competence requirements and management system requirements that are necessary for it to consistently deliver technically valid test results and calibrations. The management system requirements in ISO/IEC 17025 are written in language relevant to laboratory operations and operate generally in accordance with the principles of ISO 9001 (see Joint ISO-ILAC-IAF Communiqué dated April 2017).

CENTRAL LOCATION:	Professional Testing Services Sdn Bhd 7, Jalan Mega 1, Taman Perindustrian Nusa Cemerlang, 79200 Iskandar Puteri, Johor , 79200, Johor
FIELD(S) OF TESTING :	MECHANICAL, MECHANICAL

SCOPE OF TESTING : MECHANICAL

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Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
Metal & Metal Products	Tension Test	ASTM A370 – 2022 ASTM B557 – 2015 (Reapproved 2023) ASTM B557M – 2015 (Reapproved 2023) ASTM E8/E8M – 2022 BS EN ISO 6892-1: 2019 BS EN ISO 4136: 2022 AS 1391: 2020 AS 2205 –2.1:2003 AWS B4.0 – 2016 JIS Z 2241 – 2011 (Errata 2012) MS ISO 6892-1:2017
	(a) -Tension on test plates and tubular sections at ambient temperature in the range of 0 kN to 2000 kN with controlled strain rate and crosshead movement, including yield and proof stress. - Modulus of elasticity on test pieces in the range of 0 kN to 2000 kN *ASME IX – 2023 *AWS D1.1/D1.1M – 2020 *API 1104 –2021 *NKK Rules Part K Chapter 2.3.1 –2022	
	(b) Through Thickness Tensile Test *Lloyd's & Chapter 3: Sect 8 – 2022 *ABS Pt.2, Chapter 1: Sect 1-17:2023	ASTM A770/770M –2003 (reapproved 2018) BS EN 10164: 2018 ISO 7778:2014
	(c) All Weld Tensile Test *AWS D1.1/D1.1M – 2020 *ASME IX – 2023	BS EN ISO 5178 – 2019 AS 2205 –2.2: 2003 AWS B4.0 – 2016
	(d) Tensile test on cruciform and lapped joints.	BS EN ISO 9018: 2015
	(e) Tensile Test at Elevated Temp, (up to 750 °C) in the range of 0 kN to 300 kN with controlled strain rate & crosshead movement, including yield & proof stress	ASTM E21-2020 BS EN ISO 6892-2:2018
	Hardness Test Vickers Hardness Test in the range of 0.3 kgf to 20 kgf	ASTM E384 – 2022 ASTM E92 – 2017 ASTM A370 –2022 ASTM E140 – 2012b (Reapproved 2019) ^{E1} BS EN ISO 9015-1: 2011 BS EN ISO 6507-1:2018 AS 2205- 6.1: 2003
	Rockwell Hardness Test	ASTM E18 – 2022 BS EN ISO 6508-1: 2016
	Brinell Hardness Test	ASTM E10-2018 BS EN ISO 6506-1: 2014

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	Impact Test Charpy V-notch Impact Tests from ambient temperature down to -110°C and -196°C *AWS D1.1/D1.1M – 2020 *ASME IX – 2023	ASTM A370 – 2022 ASTM E23 – 2023a BS EN ISO 148-1: 2016 AS 2205- 7.1: 2003 AWS B4.0 – 2016 MS ISO 148-1:2008
	Bend Test / Roller Bend Test *AWS D1.1/D1.1M – 2020 *ASME IX –2023 *API 1104 –2021	ASTM A370 – 2022 ASTM E190 – 2021 ASTM E290 – 2022 AS/NZS 2205- 3.1:2020 AS 2205- 3.3:2003 BS EN ISO 5173: 2023 AWS B4.0 – 2016
	Fracture Test	AWS D1.1/D1.1M – 2020 Clause 6.23.4 ASME IX –2023 Clause QW-182 AWS D1.2/D1.2M – 2014 Clause 3.10 (Option 1) BS EN ISO 9017:2018
	Shear Test of Clad Material or Weld Overlay	ASME II Part A:2023, SA 263-265 ASTM A263-2012 (Reapproved 2019) ASTM A264-2012 (Reapproved 2019) ASTM A265-2012 (Reapproved 2019)
	Flattening Test *ABS Pt.2, Chapter 3: Sect 5-19 – 2023 *Lloyd's & Chapter 2: Sect 4.2 – 2022	ASTM A370 – 2022
	Flaring / Flanging Test (Up to outside diameter of 2 inches) *ABS Pt.2, Chapter 3: Sect 5-23&25 – 2023 *Lloyd's & Chapter 2: Sect 4.3 & 4.4 – 2022	ASTM A370 – 2022
	Nick Break Test *API 1104 – 2021	ASTM A370 – 2022

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	1. - Macro Examination - Macroscopic Examination on Welds *ASME IX – 2023 *AWS D1.1/D1.1M – 2020 *API 1104 – 2021	ASTM E381 –2022 BS EN ISO 17639: 2022
	2. Macro-etching of Metals and Alloys *ASME IX – 2023 *AWS D1.1/D1.1M – 2020	ASTM E340 – 2015 AS/NZS 2205- 5.1: 2019
	Fracture Mechanics Toughness Tests Crack Tip Opening Displacement (CTOD) test and J-Integral - Single Edge Notched Bend (SENB)	BS ISO 12135-2021 BS EN ISO 15653-2018 ASTM A370 – 2022 ASTM E1820 – 2023b AS 2205.7.3 – 2003
	Fracture Mechanics Toughness Tests Crack Tip Opening Displacement (CTOD) test and J-Integral - Single Edge Notched Tension (SENT)	DNV-RP-F108 : Jan 2006 DNVGL-RP-F108 : Oct 2017 BS 8571: 2018
	Fatigue Test	ISO 1099 : 2017 BS EN ISO 15630-1 : 2019 BS EN ISO 15630-2 : 2019 BS 4449 : 2005 + A3 : 2016
	Corrosion Test Hydrogen Induced Cracking (HIC) Test	NACE Standard TM 0284-2016 Item No. 21215
	Sulfide Stress Corrosion Cracking (SSCC) Test	ASTM G39 – 1999 (Reapproved 2021) ASTM A370 – 2022 BS EN ISO 7539-1: 2012 BS EN ISO 7539-2: 1995 NACE Standard TM0177-2016 Item No. 21212
	Corrosion Test Pitting Corrosion Test	ASTM G48-2011 (Reapproved 2020)E1 (Method A)
	Intergranular Corrosion Test	ASTM A262-2015 (Reapproved 2021) (Practice E) ASTM A262-2015 (Reapproved 2021) (Practice C) ASTM G28-2022 (Method A)

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Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
	Microstructural Test	ASTM A923 – 2022 (Method C)
	Detection of Detrimental Intermetallic Phase in Duplex Austenitic/Ferritic Stainless Steels	
	Coating Mass Determination for Zinc or Zinc-Alloy Coatings	ASTM A90/A90M-2021 BS EN ISO 1460:2020
	Average Grain Size Measurement	ASTM E112 – 2013 (Reapproved 2021) (Comparison Method)
	Determining Volume Fraction by Systematic Manual Point Count	ASTM E562 – 2019 ^{E1}
Metal & Metal Products (fasteners / Bolts & Nuts)	Tension Test	ASTM A370 – 2022 ASTM F606/F606M – 2021 BS EN ISO 898-1:2013
	Tension on fasteners at ambient temperature in the range of 0 kN to 2000 kN with controlled strain rate and crosshead movement, including yield and proof stress.	
	Proof Load Test	ASTM F606/F606M – 2021 BS EN ISO 898-1:2013 BE EN ISO 898-2:2022
Steel Bar For The Reinforcement Of Concrete / Steel Wire	Tension Test	BS EN ISO 6892-1: 2019 BS EN ISO 15630-1:2019 BS 4449+A3: 2016 SS 2-Part 1: 1999 SS 2-Part 2: 1999 SS 2-Part 3: 1987 SS 18 -Part 1: 1999 MS ISO 6892-1:2017 MS ISO 15630-1:2012 *MS 144:2014 *MS 146:2014
	Tension on steel rebar or steel wire at ambient temperature in the range of 0 kN to 2000 kN with controlled strain rate and crosshead movement, including yield and proof stress	
	Bend and Rebend Test	SS 2: Part 1 –1999 SS 2: Part 2 –1999 SS 2: Part 3 –1987 BS 4449 + A3: 2016 BS EN ISO 15630-1:2019 MS ISO 15630-1:2012 *MS 144:2014 *MS 146:2014
	*SS 32 Part 1: 1999 *SS 32 Part 2: 1986 *SS 18 Part 1: 1999	

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Steel Wire Mesh / Steel Fabric	Tension Test Tension on steel wires taken from wire fabric at ambient temperature in the range of 0 kN to 2000 kN with controlled strain rate and crosshead movement, including yield and proof stress. *SS 32 Part 1: 1999 *SS 32 Part 2: 1986 *SS 18 Part 1: 1999	BS EN ISO 6892-1: 2019 BS EN ISO 15630-2:2019 MS 6892-1:2017 MS ISO 15630-2:2012 *MS 145:2014
	Bend and Rebend Test	BS EN ISO 15630-2:2019 MS ISO 15630-2:2012 *MS 145:2014
	Weld Shear Test	SS 32 Part 1: 1999 Annex A SS 32 Part 2: 1986 Clause 4.8.4 BS EN ISO 15630-2:2019 MS ISO 15630-2:2012 *MS 145:2014

SCOPE OF TESTING : MECHANICAL (METALLURGICAL)

Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
Metal & Metal Products	Tension Test (a) -Tension on test plates and tubular sections at ambient temperature in the range of 0 kN to 2000 kN with controlled strain rate and crosshead movement, including yield and proof stress. - Modulus of elasticity on test pieces in the range of 0 kN to 2000 kN *ASME IX – 2023 *AWS D1.1/D1.1M – 2020 *API 1104 –2021 *NKK Rules Part K Chapter 2.3.1 –2022	ASTM A370 – 2022 ASTM B557 – 2015 (Reapproved 2023) ASTM B557M – 2015 (Reapproved 2023) ASTM E8/E8M – 2022 BS EN ISO 6892-1: 2019 BS EN ISO 4136: 2022 AS 1391: 2020 AS 2205 –2.1:2003 AWS B4.0 – 2016 JIS Z 2241 – 2011 (Errata 2012) MS ISO 6892-1:2017

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Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
	(b) Through Thickness Tensile Test *Lloyd's & Chapter 3: Sect 8 – 2022 *ABS Pt.2, Chapter 1: Sect 1-17:2023	ASTM A770/770M –2003 (reapproved 2018) BS EN 10164: 2018 ISO 7778:2014
	(c) All Weld Tensile Test *AWS D1.1/D1.1M – 2020 *ASME IX – 2023	BS EN ISO 5178 – 2019 AS 2205 –2.2: 2003 AWS B4.0 – 2016
	(d) Tensile test on cruciform and lapped joints.	BS EN ISO 9018: 2015
	(e) Tensile Test at Elevated Temp, (up to 750 °C) in the range of 0 kN to 300 kN with controlled strain rate & crosshead movement, including yield & proof stress	ASTM E21-2020 BS EN ISO 6892-2:2018
	Hardness Test Vickers Hardness Test in the range of 0.3 kgf to 20 kgf	ASTM E384 – 2022 ASTM E92 – 2017 ASTM A370 –2022 ASTM E140 – 2012b (Reapproved 2019) ^{E1} BS EN ISO 9015-1: 2011 BS EN ISO 6507-1:2018 AS 2205- 6.1: 2003
	Rockwell Hardness Test	ASTM E18 – 2022 BS EN ISO 6508-1: 2016
	Brinell Hardness Test	ASTM E10-2018 BS EN ISO 6506-1: 2014
	Impact Test Charpy V-notch Impact Tests from ambient temperature down to -110°C and -196°C *AWS D1.1/D1.1M – 2020 *ASME IX – 2023	ASTM A370 – 2022 ASTM E23 – 2023a BS EN ISO 148-1: 2016 AS 2205- 7.1: 2003 AWS B4.0 – 2016 MS ISO 148-1:2008
	Bend Test / Roller Bend Test *AWS D1.1/D1.1M – 2020 *ASME IX –2023 *API 1104 –2021	ASTM A370 – 2022 ASTM E190 – 2021 ASTM E290 – 2022 AS/NZS 2205- 3.1:2020 AS 2205- 3.3:2003 BS EN ISO 5173: 2023 AWS B4.0 – 2016

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	Fracture Test	AWS D1.1/D1.1M – 2020 Clause 6.23.4 ASME IX –2023 Clause QW-182 AWS D1.2/D1.2M – 2014 Clause 3.10 (Option 1) BS EN ISO 9017:2018
	Shear Test of Clad Material or Weld Overlay	ASME II Part A:2023, SA 263-265 ASTM A263-2012 (Reapproved 2019) ASTM A264-2012 (Reapproved 2019) ASTM A265-2012 (Reapproved 2019)
	Flattening Test *ABS Pt.2, Chapter 3: Sect 5-19 – 2023 *Lloyd's & Chapter 2: Sect 4.2 – 2022	ASTM A370 – 2022
	Flaring / Flanging Test (Up to outside diameter of 2 inches) *ABS Pt.2, Chapter 3: Sect 5-23&25 – 2023 *Lloyd's & Chapter 2: Sect 4.3 & 4.4 – 2022	ASTM A370 – 2022
	Nick Break Test *API 1104 – 2021	ASTM A370 – 2022
	1. - Macro Examination - Macroscopic Examination on Welds *ASME IX – 2023 *AWS D1.1/D1.1M – 2020 *API 1104 – 2021	ASTM E381 –2022 BS EN ISO 17639: 2022
	2. Macro-etching of Metals and Alloys *ASME IX – 2023 *AWS D1.1/D1.1M – 2020	ASTM E340 – 2015 AS/NZS 2205- 5.1: 2019
	Fracture Mechanics Toughness Tests Crack Tip Opening Displacement (CTOD) test and J-Integral - Single Edge Notched Bend (SENB)	BS ISO 12135-2021 BS EN ISO 15653-2018 ASTM A370 – 2022 ASTM E1820 – 2023b AS 2205.7.3 – 2003

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	Fracture Mechanics Toughness Tests Crack Tip Opening Displacement (CTOD) test and J-Integral - Single Edge Notched Tension (SENT)	DNV-RP-F108 : Jan 2006 DNVGL-RP-F108 : Oct 2017 BS 8571: 2018
	Fatigue Test	ISO 1099 : 2017 BS EN ISO 15630-1 : 2019 BS EN ISO 15630-2 : 2019 BS 4449 : 2005 + A3 : 2016
	Corrosion Test Hydrogen Induced Cracking (HIC) Test	NACE Standard TM 0284-2016 Item No. 21215
	Sulfide Stress Corrosion Cracking (SSCC) Test	ASTM G39 – 1999 (Reapproved 2021) ASTM A370 – 2022 BS EN ISO 7539-1: 2012 BS EN ISO 7539-2: 1995 NACE Standard TM0177-2016 Item No. 21212
	Corrosion Test Pitting Corrosion Test	ASTM G48-2011 (Reapproved 2020)E1 (Method A)
	Intergranular Corrosion Test	ASTM A262-2015 (Reapproved 2021) (Practice E) ASTM A262-2015 (Reapproved 2021) (Practice C) ASTM G28-2022 (Method A)
	Microstructural Test Detection of Detrimental Intermetallic Phase in Duplex Austenitic/Ferritic Stainless Steels	ASTM A923 – 2022 (Method C)
	Coating Mass Determination for Zinc or Zinc-Alloy Coatings	ASTM A90/A90M-2021 BS EN ISO 1460:2020
	Average Grain Size Measurement	ASTM E112 – 2013 (Reapproved 2021) (Comparison Method)
	Determining Volume Fraction by Systematic Manual Point Count	ASTM E562 – 2019 ^{E1}
Metal & Metal Products (fasteners / Bolts & Nuts)	Tension Test	ASTM A370 – 2022 ASTM F606/F606M – 2021 BS EN ISO 898-1:2013
	Tension on fasteners at ambient temperature in the range of 0 kN to 2000 kN with controlled strain rate and crosshead movement, including yield and proof stress.	
	Proof Load Test	ASTM F606/F606M – 2021 BS EN ISO 898-1:2013 BE EN ISO 898-2:2022

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Steel Bar For The Reinforcement Of Concrete / Steel Wire	Tension Test Tension on steel rebar or steel wire at ambient temperature in the range of 0 kN to 2000 kN with controlled strain rate and crosshead movement, including yield and proof stress	BS EN ISO 6892-1: 2019 BS EN ISO 15630-1:2019 BS 4449+A3: 2016 SS 2-Part 1: 1999 SS 2-Part 2: 1999 SS 2-Part 3: 1987 SS 18 -Part 1: 1999 MS ISO 6892-1:2017 MS ISO 15630-1:2012 *MS 144:2014 *MS 146:2014
	Bend and Rebend Test *SS 32 Part 1: 1999 *SS 32 Part 2: 1986 *SS 18 Part 1: 1999	SS 2: Part 1 –1999 SS 2: Part 2 –1999 SS 2: Part 3 –1987 BS 4449 + A3: 2016 BS EN ISO 15630-1:2019 MS ISO 15630-1:2012 *MS 144:2014 *MS 146:2014
Steel Wire Mesh / Steel Fabric	Tension Test Tension on steel wires taken from wire fabric at ambient temperature in the range of 0 kN to 2000 kN with controlled strain rate and crosshead movement, including yield and proof stress. *SS 32 Part 1: 1999 *SS 32 Part 2: 1986 *SS 18 Part 1: 1999	BS EN ISO 6892-1: 2019 BS EN ISO 15630-2:2019 MS 6892-1:2017 MS ISO 15630-2:2012 *MS 145:2014
	Bend and Rebend Test	BS EN ISO 15630-2:2019 MS ISO 15630-2:2012 *MS 145:2014
	Weld Shear Test	SS 32 Part 1: 1999 Annex A SS 32 Part 2: 1986 Clause 4.8.4 BS EN ISO 15630-2:2019 MS ISO 15630-2:2012 *MS 145:2014

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Carbon And Low Alloys Steel Elements: Al, B, C, Cr, Co, Cu, Mn, Mo, N, Ni, Nb, P, Si, S, Sn, Ti, V, W	Metallurgical Testing Elemental Analysis (Metal Composition Determination)	ASTM A751-2021 ASTM E415-2021 *BS 4449:2005+A3:2016 *MS ISO 15630-1:2012 *MS 144:2014 *MS 146:2014
Stainless Steels Elements: Cr, Ni, Mo, Mn, Si, N, Cu, C, P, S	Elemental Analysis (Metal Composition Determination)	ASTM A751-2021 ASTM E1086-2022
Nickel Alloys Elements: Al, C, Cr, Co, Cu, Fe, Mn, Mo, Nb, P, Si, S, Ti, V, W	Elemental Analysis (Metal Composition Determination)	In house Method PTS –M001 (Based on Arc Spark Spectrometry Method)
Aluminum And Aluminum Alloys Elements: Sb, As, Be, Bi, B, Ca, Cr, Co, Cu, Fe, Pb, Li, Mg, Mn, Ni, P, Si, Na, Sn, Ti, V, Zn, Zr	Elemental Analysis (Metal Composition Determination)	ASTM E1251-2017a

SCOPE OF TESTING : MECHANICAL (METALLURGICAL)

Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
Carbon And Low Alloys Steel Elements: Al, B, C, Cr, Co, Cu, Mn, Mo, N, Ni, Nb, P, Si, S, Sn, Ti, V, W	Metallurgical Testing Elemental Analysis (Metal Composition Determination)	ASTM A751-2021 ASTM E415-2021 *BS 4449:2005+A3:2016 *MS ISO 15630-1:2012 *MS 144:2014 *MS 146:2014
Stainless Steels Elements: Cr, Ni, Mo, Mn, Si, N, Cu, C, P, S	Elemental Analysis (Metal Composition Determination)	ASTM A751-2021 ASTM E1086-2022
Nickel Alloys Elements: Al, C, Cr, Co, Cu, Fe, Mn, Mo, Nb, P, Si, S, Ti, V, W	Elemental Analysis (Metal Composition Determination)	In house Method PTS –M001 (Based on Arc Spark Spectrometry Method)
Aluminum And Aluminum Alloys Elements: Sb, As, Be, Bi, B, Ca, Cr, Co, Cu, Fe, Pb, Li, Mg, Mn, Ni, P, Si, Na, Sn, Ti, V, Zn, Zr	Elemental Analysis (Metal Composition Determination)	ASTM E1251-2017a

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