



ATEL-1-0121-005F

SCOPE OF ACCREDITATION

Physical Laboratories Section Metals Industry Research and Development Center MIRDC Compound, Gen. Santos Ave., Bicutan, Taguig City

Mechanical Testing

Classification of Scopes	Specific tests or Measurements	Standard Method / Reference Standard
Metals and Metals Products		
Tension Tests on Test Pieces	Tension Test	ASTM E8/E8M
		ASTM A370
		ASTM B557
		JIS Z 2241 (2011)
		ISO 6892-1998 (E)
Tension Tests on Products	Tension Test	ASTM E8/E8M
		ASTM A370
		ASTM B557
		ISO 6892-1998 (E)
		PNS 657- 08
Hardness tests Metallic materials/ products	Brinell Hardness Test	ASTM E10
	Rockwell Hardness Test	ASTM E18
	Vickers/Knoop Hardness Test	ASTM E384
	Portable Hardness Test	ASTM A1038
	Hardness conversion	ASTM E140
Bend Test- Metallic materials	Bend Test	ASTM A370; ASTM E290
Tests on reinforcement for Concrete	Tension Test	PNS 49:2002
	Bend Test	PNS 211:2002
	Deformation Measurement	
	Variation in Mass	PNS 49:2002; PNS 211:2002
Tests on Wire	Tension Test	ASTM A370; ASTM E8/E8M; ISO 6892-1998e; PNS 113-2005; PNS136-2000
	Bend Test	PNS 113-2005; PNS136-2000
	Dimension Test	
	Torsion Test	
	Winding Test	
	Physical Appearance Test	



ATEL-1-0121-005F

SCOPE OF ACCREDITATION

Physical Laboratories Section Metals Industry Research and Development Center MIRDC Compound, Gen. Santos Ave., Bicutan, Taguig City

Classification of Scopes	Specific tests or Measurements	Standard Method / Reference Standard
Tests on Tubes	Tension Test	ASTM E8/E8M; ASTM A370; ISO 7438-1995; ASTM A53/ A53M; ASTM A450 /A450M; ASTM A530/ A530M; ISO 6892-1998 (E);
	Bend Test	ASTM A370; ASTM A53/ A53M; ASTM A450/ A450M; ASTM A530/A530M; ISO 7438-1985
	Flattening Test	ASTM A450/ A450M; ASTM A530/ A530M; PNS 26-2003
	Hydrostatic Test	ASTM A450/A450M; ASTM A530/ A530M; PNS 26-2003
Qualification of Weld Joints	Tension Test	ANSI/AWS D1.1-2008 ASME IX-2010
	Bend Test	
	Fracture / Break Test	ANSI/AWS D1.1-2008; ASME IX-2010 ABS Rule Requirements for Materials and welding Part 2 – 2015
Structural Shapes (Angle bars)	Tension Test	ASTM A370; ASTM E8/E8M; PNS 657 – 2008; ISO 630
	Variation in Mass Test	PNS 657 – 2008
	Dimensional Measurements	
	Camber Test	
	Out of Square Test	
Industrial Fasteners	Axial Tension Test	ASTM F606/F606M
Cylinders and Other Pressure Vessels	Hydrostatic Test	PNS 03-2000; PNS 04-2006
	Burst Test	



ATEL-1-0121-005F

SCOPE OF ACCREDITATION

Physical Laboratories Section Metals Industry Research and Development Center MIRDC Compound, Gen. Santos Ave., Bicutan, Taguig City

Classification of Scopes	Specific tests or Measurements	Standard Method / Reference Standard
	Tension Test	
	Bend Test	
	Elongation Test	
	Air Leak Test	
Non Destructive Test by Radiography		
Radiographic examination of metals		
Aluminum Alloys - Welded joints - Castings - Riveted Joints - Other Specified Products	Radiographic Test	ASTM E94; ASTM E155; ASTM E186; ASTM E272; ASTM E280
Copper Alloys - Welded joints - Castings - Other Specified Products	Radiographic Test	ASTM E301; ASTM E390; ASTM E446; ASTM E505
Ferrous Materials - Welded joints - Castings - Other Specified Products (including Stainless Steel)	Radiographic Test	ASTM E186; ASTM E 689; ASTM E1030; ASTM E1032; ASTM E802
Non Destructive Test by Ultrasonic		
Ultrasonic examination of metals		
Aluminum alloys - Wrought Products - Welded joints - Castings - Other Specified Products	Ultrasonic Test	ASTM E1114; ASTM E164; ASTM E213; ASTM E273; ASTM E587; ASTM E588 ASTM E797; ASTM E1315
Ferrous Metals - Rolled products - Forging - Welded Joints	Ultrasonic Test	ASME V Art 4; ANSI/ AWSD1.1 Sec 6 Part C; ASTM E 186



ATEL-1-0121-005F

SCOPE OF ACCREDITATION

**Physical Laboratories Section
Metals Industry Research and Development Center
MIRDC Compound, Gen. Santos Ave., Bicutan, Taguig City**

Classification of Scopes	Specific tests or Measurements	Standard Method / Reference Standard
- Castings		
Other specified products (including Stainless Steel)		
Ultrasonic examination of components & assemblies	Ultrasonic Test	ASME I; ASME VIII
Aircraft structure		
Bonded assemblies		
Components & assemblies		
Thickness measurement		
Non Destructive Test by Surface Methods		
Penetrant testing (including visible dye and fluorescent dye techniques) - Water washable methods - Solvent removable methods - Post emulsifiable method	Surface Test	ASTM E165; ASTM E1208
Magnetic particle testing (including visible dye and fluorescent dye techniques)	Magnetic Particle Test	ASTM E1210; ASTM E1219; ASTM E1220; ASTM E1117; ASTM E 1418; ASTM V Art 6 ANSI/AWS D1.1 Sec. 6 Part A; ASTM E125; ASTM E709; ASTM E1444; ASME V Art 7
Magnetic flow method - Welded joints - Forging - Casting - Other machine products		
Current flow method (DC) - Welded joints - Forging - Casting - Other machine products		
Coil method - Welded joints - Forging		



**Philippine
Accreditation
Bureau**

ATEL-1-0121-005F

SCOPE OF ACCREDITATION

Physical Laboratories Section Metals Industry Research and Development Center MIRDC Compound, Gen. Santos Ave., Bicutan, Taguig City

Classification of Scopes	Specific tests or Measurements	Standard Method / Reference Standard
- Casting - Other machine products		

Legend to Reference Standards:

- ASTM - American Society for Testing and Materials
- ASME - American Society of Mechanical Engineers
- ISO - International Organization for Standardization
- JIS - Japanese Industrial Standard
- PNS - Philippine National Standard



JAMES E. EMPEÑO
Director IV
Philippine Accreditation Bureau



**PAB ACCREDITED
TESTING LABORATORY
PNS ISO/IEC 17025:2017
LA-1996-005F**