

PRESS METAL ALUMINIUM RODS SDN BHD (36093-H)

QUALITY SYSTEM



CERTIFIED TO ISO 9001:201 CERT. NO.: AR 6059

(formerly known as Leader Universal Aluminium Sdn Bhd)

Reference Number : PMAR/PS-1120/1218

Revision Number : 1

Effective Date : 19th Jul 2019 Page : 1 of 3

PRODUCT SPECIFICATION ALUMINIUM ALLOY RODS GRADE 1120

1.0 SCOPE:

This specification is main to Aluminium Alloy Rods Grade 1120 produced by Press Metal Aluminium Rods Sdn

2.0 REFERENCED SPECIFICATIONS:

ASTM B 233 Aluminium 1350 Drawing Stock for Electrical Purpose

EN 573-3 Aluminium and Aluminium Alloys - Chemical Composition and Form of

Wrought Products

AS 2848.1 Aluminium and Aluminium Alloys - Compositions and Designations
AS 1531 Condustors - Bare Overhead - Aluminium and Aluminium Alloy

3.0 TECHNICAL SPECIFICATION:

3.1 DIAMETER

Specified diameter	Deviation of mean diameter from specified diameter	Deviation at any point from specified diameter
(mm)	(mm)	(mm)
9.52	± 0.51	± 0.76

3.2 TENSILE & ELONGATION

Description	Tensile Strength	Tensile Strength	Elongation % at 250mm GL (Min)
(Temper)	kgf/mm²	Mpa	
1120	16.3 ~ 19	160 ~ 186	4.0

3.3 CONDUCTIVITY & RESISTIVITY

Description (Temper)	Minimum Conductivity % IACS, Min	Volume electrical resistivity at 20°C ohm.mm²/m, Max
1120	58.84	0.029300

3.4 CHARACTERISTIC

Description	Unit	
Specific gravity Temperature coefficient at 20 °C	g/cm per °C	2.7 0.00390





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3.5 CHEMICAL COMPOSITION

Element	Composition (%)
Silicon	Max: 0.10
Iron	Max: 0.40
Copper	0.05 ~ 0.35
Manganese	Max: 0.01
Magnesium	Max: 0.20
Chromium	Max: 0.01
Zinc	Max: 0.05
Boron	Max: 0.05
Gallium	Max: 0.03
Vanadium & Titanium	Max: 0.02
Other elements, each	Max: 0.03
Other elements, total	Max: 0.10
Aluminium	Min: 99.2

4.0 FINISHING & APPEARANCE

The Aluminum Rod is supplied in the form of a continuous coil without any joints. The Rod shall be clean, without any excessive oil & grease, of uniform lustre, smooth and free from flakes, cracks, kinks, dents, twists, and other injury or defects.

5.0 PACKAGING

The coil shall be supplied with following dimension:

Inner diameter Approximately 500mm
Outer diameter 1500mm maximum
Height 850mm to 950mm

The nominal weight for each coil approximately 2000 ± 200 kg.

Each coil shall be securely strapped to a timber pallet. The pallet shall be dry or free from moisture to prevent insect or fungal attack.

Adequate protection shall be provided to prevent corrosion or physical damage to the coil.

Each coil shall be wrapped with a blank polyethylene in order to be protected from damage and prevent contamination to the rods surface which might cause from the environment.

6.0 MARKING

Each coil shall be attached with waterproof label on the outside of the coil with following information:

- 1) Customer name
- 2) Material type and grade
- 3) Nominal finished rod diameter
- 4) Tested mechanical properties (Tensile and Elongation)
- 5) Conductivity
- 6) Net and gross weight
- 7) Coil identification number
- 8) Manufacturing date

Product Specification: Aluminium Alloy Rods Grade 1120





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7.0 TEST CERTIFICATES

Test certificate shall be provided to customer upon or precede delivery. The contents inside the Test Certificate shall be as follows:

- 1) Customer's name
- 2) Material type and grade
- 3) Delivery Order number
- 4) Net weight
- 5) Testing result for Clause 3.0

8.0 QUALITY ASSURANCE

All products are manufactured to meet the standard specification that been agreed between Press Metal Aluminium Rods Sdn Bhd and customer. Each of our product been tested with reliable testing equipment. Manufacturing of this product has considered the restriction of hazardous element usage stated in REACH and ROSH directive.

^{*}Requisition for additional information inside the Test Certificate shall be considered.