

PRESS METAL ALUMINIUM RODS SDN BHD (36093-H) (formerly known as Leader Universal Aluminium Sdn Bhd)

Reference Number : PMAR/PS-8030/1218

Revision Number : 2

: 14th Oct 2020 Effective Date Page : 1 of 3

PRODUCT SPECIFICATION **ALUMINIUM ALLOY RODS GRADE 8030**

1.0 SCOPE:

This specification is main to Aluminium Alloy Rods Grade 8030 produced by Press Metal Aluminium Rods Sdn Bhd.

2.0 REFERENCED SPECIFICATIONS:

ASTM B 800 Standard Specification for 8000 Series Aluminium Alloy Wire for Electrical Purposes -

Annealed and Intermediate Tempers¹

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

Wrought Products

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 (Temper)	Tensile Strength kgf/mm²	Tensile Strength Mpa	Elongation % at 250mm GL (Min)
8030 - H14	10.5 ~ 15.5	103 ~ 152	10.0
8030 - O	6.0 ~ 11.3	59 ~ 111	25.0

3.3 CONDUCTIVITY & RESISTIVITY

Description (Temper)	Minimum Conductivity % IACS, Min	Volume electrical resistivity at 20°C ohm.mm²/m, Max
8030 - H14	59.5	0.028976
8030 - O	61.5	0.028035

3.4 CHARACTERISTIC

Description	Unit	
Specific gravity Temperature coefficient at 20 °C	kg/m³ per °C	2710 0.00400



PRESS METAL ALUMINIUM RODS SDN BHD (36093-H)

QUALITY SYSTEM



CERTIFIED TO ISO 9001:2015 CERT. NO. : AR 6059

(formerly known as Leader Universal Aluminium Sdn Bhd)

Reference Number : PMAR/PS-8030/1218

Revision Number : 2

Effective Date : 14th Oct 2020 Page : 2 of 3

3.5 CHEMICAL COMPOSITION

Element	Composition (%)
Silicon	Max: 0.10
Iron	0.30 ~ 0.80
Copper	0.15 ~ 0.30
Magnesium	Max: 0.05
Zinc	Max: 0.05
Boron	0.001 ~ 0.04
Other elements, each	Max: 0.03
Other elements, total	Max: 0.10
Aluminium	Remainder

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



PRESS METAL ALUMINIUM RODS SDN BHD (36093-H)

QUALITY SYSTEM UK MANAGEN MANA

SIRIM SYSTEMS
074

CERTIFIED TO ISO 9001:201

(formerly known as Leader Universal Aluminium Sdn Bhd)

Reference Number : PMAR/PS-8030/1218

Revision Number : 2

Effective Date : 14th Oct 2020 Page : 3 of 3

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.