

**KES**

Aluminium Alloy Rods, Bars  
and Wires

KES B-F003

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### 1. Scope of Application

This standard specifies the aluminium alloy rods, bars and wires the extruding section of which are circle, rectangular, square, hexagon or pentagon shape (hereinafter referred to "alloy").

### 2. Kind and Usage

The kind and usage shall conform to Table 1.

Table 1

| Kind | Division of alloy                                 | Alloy characteristics                                                                                                                                             | Main usage                                                             | Remark |
|------|---------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------|--------|
| 5056 | Al-Mg<br>Al-Mg series<br>non-heat treat -<br>ment | For wire rods use<br>Presents utmost strength among<br>Alloy of non-heat treated alloys<br>Good characteristics of corrosive-<br>resistance and surface treatment | Brake Master<br>Cylinder<br>Piston<br>Clutch Master Cylinder<br>Piston |        |

### 3. Chemical Element

The chemical elements of the alloy shall conform to Table 2.

Table 2

| Kind | Chemical element (%) |        |        |                |              |        |                |    |        |                |
|------|----------------------|--------|--------|----------------|--------------|--------|----------------|----|--------|----------------|
|      | Cu                   | Si     | Fe     | Mn             | Mg           | Zn     | Cr             | Ti | Others | Al             |
| 5056 | ≤ 0.10               | ≤ 0.30 | ≤ 0.40 | 0.05<br>- 0.20 | 4.5<br>- 5.6 | ≤ 0.10 | 0.05<br>- 0.20 | —  | ≤ 0.15 | Re-<br>mainder |

### 4. Mechanical Properties

The mechanical properties of each kind of alloy shall conform to Table 3.