

## Product Name: Hi-puri Al mixture, Hi-puri Al composite

### 1. Tensile strength test

#### A. Equipment

- Name of Equipment: Tensile Testing Machine
- Manufacturer : Shimadzu (Japan)
- Model : AGS-X (Video Extensometer)

#### B. Tensile specimen

unit: mm

	Diameter	Guage Length
Pure Al	6.04	15.69
Hi-puri Al mixture	6.04	15.57
Hi-puri Al Composite	6.04	14.99

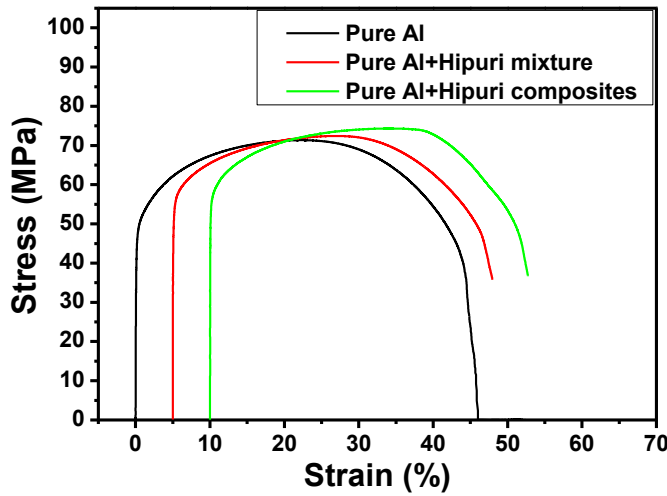
#### C. Testing condition

- Temp: laboratory temp.
- Strain speed: 5mm/min

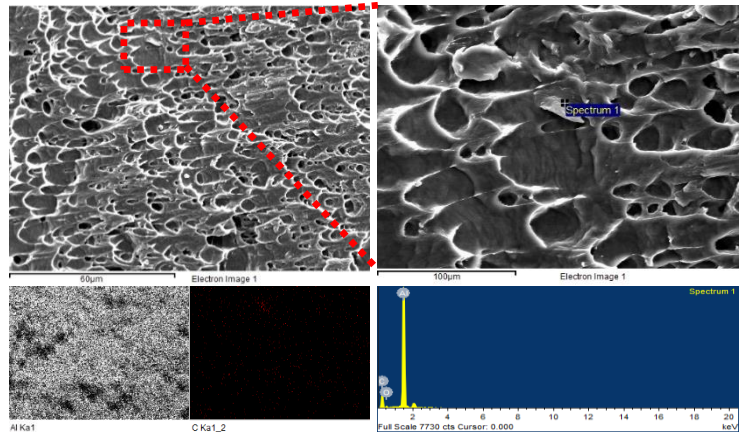
#### D. Test result

	Modulus of elasticity (GPa)	Yield Strength (MPa)	Tensile Strength (MPa)	Elongation (%)
Pure Al	66.120	46.86	71.32	45.68
Hi-puri Al mixture	143.564	53.45	72.40	42.92
Hi-puri Al Composite	156.21	55.74	74.29	42.71

### 2. Particle size analysis



### 3. Fracture surface



### 4. XRD analysis

