

Product Name: Hydra Al mixture, Hydra 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
Hydra Al mixture	6.04	15.70
Hydra Al Composite	6.04	15.06

C. Testing condition

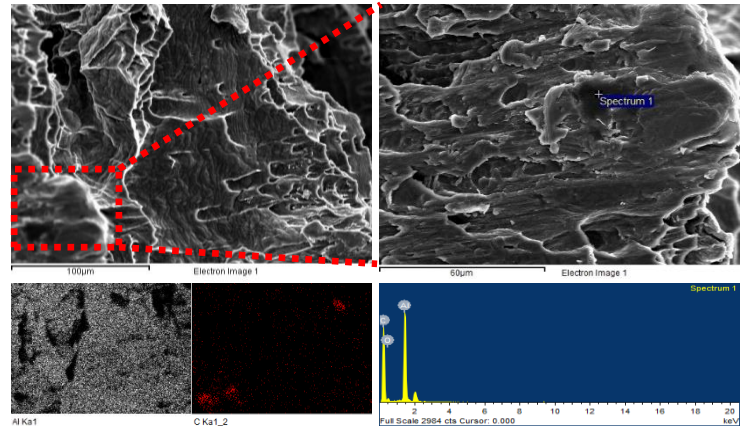
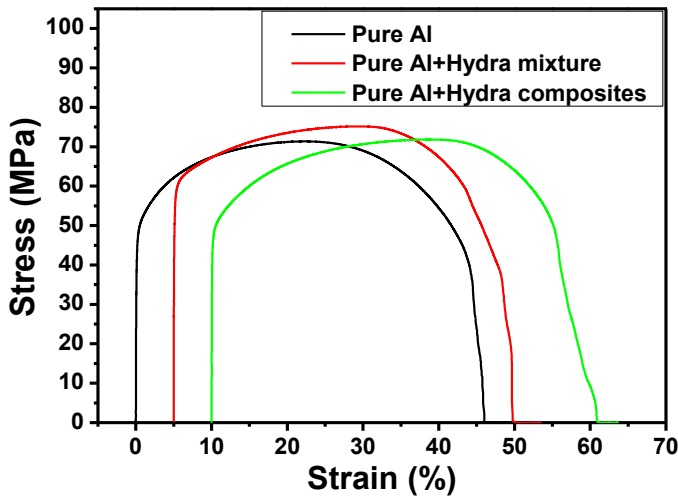
- Temp: laboratory temp.
- Strain speed: 5mm/min

D. Test result

	Modulus of elasticity (GPa)	Yield Strength (MPa)	Tensile Strength (MPa)	Elongation (%)
Pure Al	66.120	46.86	71.32	45.68
Hydra Al mixture	100.031	57.02	75.13	44.63
Hydra Al Composite	81.555	47.17	71.80	49.90

2. Particle size analysis

3. Fracture surface



4. XRD analysis

