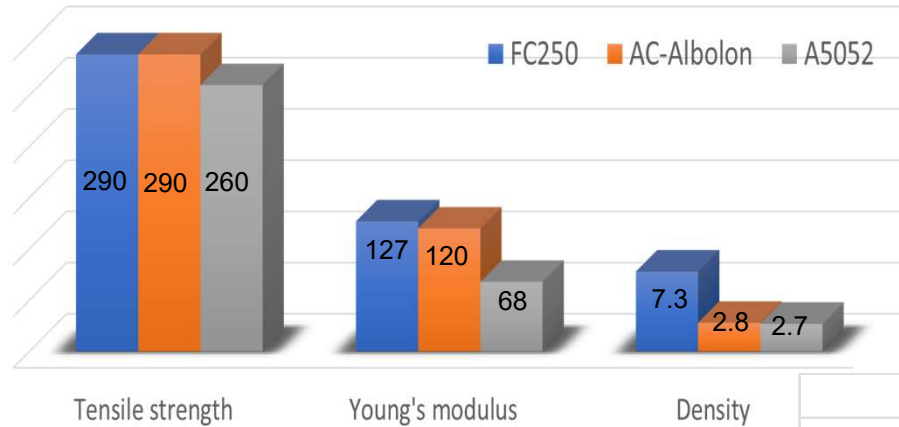


AC-Albolon

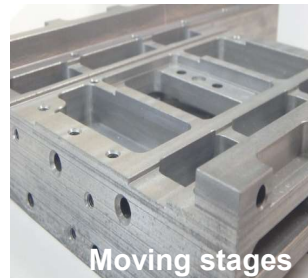
Lightweight, high strength and easy machinability!



Microstructure



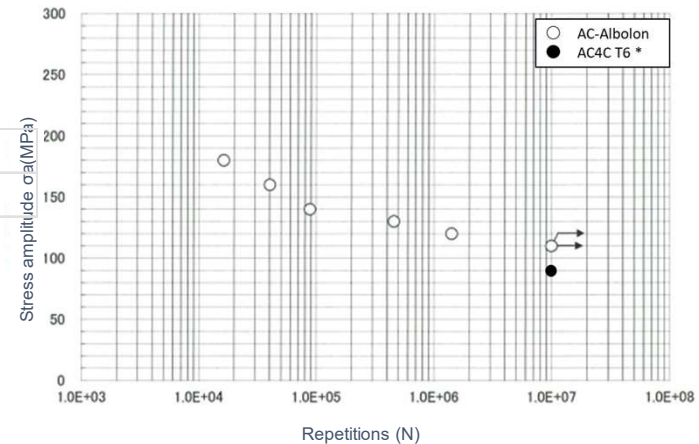
Products



◆ Data Table

	FC250	AC-Albolon	A5052
Tensile Strength (Mpa)	290	290	260
Bending Strength (Mpa)	530	350	-
Young's Modulus (Gpa)	127	120	68
CTE (ppm/K)	12	12	23.6
Specific Heat (J/gK)	0.54	0.92	0.9
Thermal Conductivity (W/mK)	52	81	140
Density (g/cm ³)	7.3	2.8	2.7

◆ Fatigue strength



*The Japan Institute of Metals and Materials From "The structure and properties of aluminum"

The fatigue strength of AC-Albolon at 10⁷ repetition is 110 MPa, compared to 90 MPa of AC4C (T6).

Near Net Shape Method Research

AC-Albolon has been gaining interest from multiple clients. Multiple joint development projects are being planned to achieve near net shape production to improve mass production.

Collaboration with public research institutes

Since 2019, we have been co-developing, with AIST, AC-Albolon as the light-weight compressor scroll material for air conditioners to achieve improved reliability, energy savings and reduced noise.

*AIST : National Institute of Advanced Industrial Science & Technology