

# Item Requirements

Article Name: Aluminium Plates for Propellant Tank Manufacturing

○ Type and Quantity

No.	Alloy	Temper	AMS Spec. (Form Designation)	size(mm)	Q'ty
1	Al2219	O	AMS QQA 250/30	15 x 2000 x 4000	64
2	Al2219	T87	AMS QQA 250/30	15 x 2000 x 7000	60
3	Al2050	T84	AMS4413	120 x 2000 x 4000	2

※ AMS : Aerospace Material Specification

○ Requirement

1. Minimum Strength requirement

No.	Alloy	Temper	AMS Spec. (Form Designation)	Thickness, mm	Tensile strength, ksi	Yield strength, ksi
1	Al2219	O	AMS QQA 250/30	15	-	-
2	Al2219	T87	AMS QQA 250/30	15	63	48
3	Al2050	T84	AMS4413	120	71	66

2. Confirmation of supplier's technical assistance in the field of belows ;

- Welding characteristics
- Material properties at room and cryogenic temperature
- Formability at room and elevated temperature
- Microstructural characteristics according to heat treatment conditions

3. Delivery Schedule

- 1<sup>st</sup> Delivery time and quantity : within March 2016

No	Alloy	Quantity
1	Al2219-O	48
2	Al2219-T87	28
3	Al2050-T84	2

- 2<sup>nd</sup> Delivery time and quantity : within September 2016 and the rest of the plates

- Delivery Item

1. Aluminium Plates described in the above table

2. Material Inspection Sheet (Chemical composition and strength evaluation)