

# 2219 Aluminium Forgings

Smiths Advanced Metals

Rev: SAM/datasheets/aluminium/2219-forgings/feb-2022

Page: 1 of 1

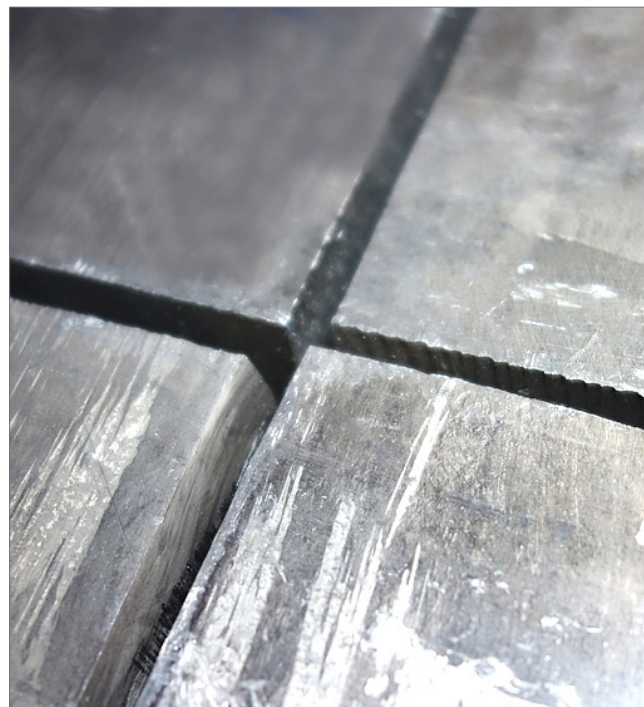
## Forged Aluminium

2219 forgings find use in aerospace and space exploration sector components.

2219 is an age hardenable heat treatable aluminium alloy which we stock and supply as forgings.

The alloy finds typical use in high-temperature applications, particularly in the aerospace sector. Heat treatment results in an alloy with high strength but with reduced ductility. Attractive characteristics include high stress corrosion resistance and fracture toughness.

We offer 2219 aluminium forgings in various sizes and tempers (including F, O-annealed, O1, T6 and T852).



## Grades / Specifications

- AMS4143
- AMS4144
- AMSQQA367
- AMSA22771

## Technical sales support:

To discover more about the [2219 aluminium forgings](#) and for other technical advice, contact Smiths Advanced Metals today. We offer comprehensive metallurgical support via our [UKAS Accredited testing Laboratory](#).

## Key Applications

- Space parts
- Compressor wheels
- Aerospace components

## Physical Properties

Density	2.84 g/cc
Melting Range (°C)	543 - 643
Electrical Resistivity	5.7e-006 ohm-cm
Thermal Conductivity	120 W/m-K
Modulus of Elasticity	73.1 GPa

## Benefits

- Good weldability
- Moderate strength at room temperature
- High strength in the range 500 to 600 °F

## Chemical Composition (weight %)

	Si	Fe	Cu	Mn	Mg	Zn	Ti	V	Zr	Others (ea)	Others (total)	Al
min.			5.80	0.20			0.02	0.05	0.10			Rem
max.	0.20	0.30	6.80	0.40	0.02	0.10	0.10	0.15	0.25	0.05	0.15	

[www.smithsadvanced.com](http://www.smithsadvanced.com)

[info@smithsadvanced.com](mailto:info@smithsadvanced.com)



Stratton Business Park,  
London Road, Biggleswade,  
Bedfordshire SG18 8QB  
Tel: **+44 (0) 1767 604710**

