# YAMATO GOKIN CO., LTD.

# **ALLOY DATA SHEET** UZ19A

#### 1. Characteristics

- High mechanical properties
- **Excellent wear resistance**
- Oxidation resistance

#### 2. Related Specifications

- NF L 14-707
- DIN 1709
- NCT 10-631-11 MD Edition 2

#### 3. Applications

- AEROSPACE : Landing gear Bushings & Bearings

#### 4. Chemical Composition

Decignation: Cu7n19Al6

Designation: Cuz	Zn19Al6			(%)				
Element	Zn	Al	Fe	Mn	Cu			
Min	16.50	5.50	2.00	4.00	h.l			
Max	21.00	7.50	4.00	7.00	balance			

## **5. Physical Properties**

Density	g/cm³	7.6
Young's modulus	N/mm²	100,000
Coefficient of expansion 20 to 300° C	×10 <sup>-6</sup> /° (	17
Thermal conductivity	W/m K	35
Electrical conductivity	IACS %	6

## 6. Available forms/Mechanical Properties

		forms/process							Mechanical properties						Available forms										
Size/condition	Bars			Tubes				Tensile strength	Yield strength 0.2% offset	Elongation	Hardness				Semi-finished products									parts	
	Extruded or forged	Drawn	Continuous casting	Extruded	Drawn	Continuous casting	Forgings	Мра	Мра	%	HB	HRB	HV	Rounds	Squares	Flats	Hexagones	Section	Tubes	Plates	Discs	Rings	Forged blanks	stamped	machined
section $\leq 2000 \text{ mm}^2$ ( $\leq \phi 50 \text{mm}$ )								≥830	≥590	≥10	≥225														
section $> 2000 \text{ mm}^2$ ( $> \phi 50 \text{mm}$ )								≥780	≥540	≥7	≥225														
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All information is intended as a guide to performance and application suitability.