YAMATO GOKIN CO., LTD.

ALLOY DATA SHEET **SH-2**

1. Characteristics

- Excellent heat-resisting property
- High electrical conductivity
- High hardness

2. Related Specifications

- RWMA Class 2
- JIS Z 3234

3. Applications

- Electrode for resistance welding
- Short-circuit ring and Rotor bar for asynchronous machines with squirrel cage

4. Chemical Composition

Designation: SH - 2

(%)

Element	Cr	Zr	Cu
Min	0.7	0.1	halanco
Max	1.4	0.3	balance

5. Physical Properties

Density	g/cm³	8.88
Young's modulus	N/mm²	124,000
Coefficient of expansion 20 to 300° C	×10 ⁻⁶ /° (16.7
Thermal conductivity	W/m K	310
Electrical conductivity	IACS %	65

6. Available forms/Mechanical Properties

		forms/process						Mechanical properties						Available forms													
		Bars Tubes				Tensile strength					roducts				pa	ırts											
Size/condition	Extruded or forged	Drawn	Continuous casting	Extruded	Drawn	Continuous casting	Forgings	Mpa	Mpa	%	皇	HRB	HV.	Rounds	Squares	Flats	Hexagones	Section	Tubes	Plates	Discs	Rings	Forged blanks	stamped	machined		
Bars																•			•				•	•			
Bars 40 ≤ φ ≤ 200mm								- ≥450 -	-	≥15		≥75		•					•		•	•			•		
Plates 15 ≤ Thickness ≤ 100mm												_,,								•							
																			•	•	•	•	•		•		

All information is intended as a guide to performance and application suitability. info2@yamatogokin.com