

MATERIALS FOR POWDER METALLURGY

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## TUNGSTEN METAL POWDER GG and HC 4000 (COARSE GRADE)

Description of Product	WMP GG: WMP HC 4000:	Special grade with low oxygen content, mainly used for Cu-Ag/W infiltration composites and mining applications. Standard grade of coarse metal powders for metallurgical				
		applications.				
Grades Available	Product Designation					
	WMP GG	- 63 μm / -106 μm / -106 + 45 μm / -250 μm				
		-230 mesh / -140 mesh / -140 +325 mesh / - 60 mesh				
	WMP HC 4000	- 63 μm / -106 μm / -106 + 45 μm / -250 μm				

Other grades on request.

## **Chemical Characteristics**<sup>1)</sup>

(Mass fraction in % [cg/g]; ppm [µg/g])

	GG			HC 400	0	
	Limit			Limit		
W	min.	99.9	% <sup>2)</sup>	min.	99.9	<b>%</b> <sup>2)</sup>
AI Ca Cu Mo Si Fe Ni Cr	max. max. max. max. max. max. max. max.	30 20 10 50 200 150 100	ppm ppm ppm ppm ppm ppm ppm	max. max. max. max. max. max. max. max.	30 20 10 50 200 150 100	ppm ppm ppm ppm ppm ppm ppm
Physical Characteristics						
Apparent density <sup>3)</sup> (all GG and HC grades) Particle size distribution <sup>4)</sup>					160	g/inch <sup>3</sup>
Oversize (all grades) Undersize (-106 + 45 μm, -140 +325 mesh) (HC 4000 / GG)				max. max.	10 5	% %

1) Information on chemical analytical methods and list of analyzed items on request, 2) Oxygen content excluded,

<sup>3)</sup> SCOTT-VOLUMETER per ASTM B 329, 4) ROTAP Screening per ASTM B 214.



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Packaging	100 kg in 18 I steel drums with PE-bags Packaging unit = 800 kg in 8 drums on CP1 pallet.				
	Other kinds of packaging are available on request.				
Storage and Handling	Storage and handling are subject to the rules and regulations in the country of use.				
Hazards identification i	n Advertising (Directive 67/548/EEC Article 26, Directive 1999/45/EC Article 13 and REGULATION (EC) No 1272/2008 Article 48) none.				
Documentation	An inspection document in accordance with EN 10204 is supplied with every shipment				

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