

POWDERS FOR POWDER METALLURGY, THERMAL SPRAYING, PLASMA TRANSFERRED ARC SURFACING

Number F Issue 6

PD-5065 6-14.03.2018

## CO-HFA NF 12 Alloy-No 0004.12 GAS ATOMIZED

HS Number

81051010

Cobalt Hardfacing Alloy NF 12 is a high wear-resistant Co-Cr-W-C hardfacing alloy with excellent properties to deal with abrasion, erosion, cavitation and metal-to-metal wear, even at high temperatures. This alloy is heat resistant up to 900 °C, corrosion resistant and non-magnetic.

<i>AMPERSINT</i> <sup>®</sup> for P/M, HIP/CIP, MIM	<i>AMPER</i> for The	<i>IT</i> <sup>®</sup> rmal Spraying	AMPERWELD <sup>®</sup> for Plasma Tra		ed Are	c Surfacing
<300μm < 31μm	90/45µn 53/20µn 45/10µn	n	150/53µm			
<b>Chemical Characteristics</b> (Mass fraction in % [cg/g]; ppm	n [µg/g])					
Cr W	29.0 - 8.0 -		Si Mo	1.0	- <	1.5 % 1.0 %
Fe Ni	< 1.5 -	0.0 /0	Mn Co		< bala	0.5 %
C	1.5 -	1.7 %	00		Dala	

### **Physical Characteristics**

(Grain Size Distribution and Tolerances above / below max. in %)

<b>AMPERSINT<sup>®</sup></b>	AM	PERIT®		AMPERWE	"LD <sup>®</sup>		
<300µm >95		5µm +90µm	max. 7% <sup>1)</sup>	150/53µm	+150µm	max.	5 % <sup>1)</sup>
< 31µm >85	;% <sup>3)</sup>	- 45 µm	max.13 % <sup>1)</sup>		- 53µm	max.	5 % <sup>1)</sup>
	53/2	0μm +53μm					
		- 20 µm	max. 13 % <sup>2)</sup>				
	45/1	0µm +45µm	max. 7% <sup>1)</sup>				
		- 10 µm	max. 13 % <sup>2)</sup>				

Other grades on request.

Particle shape approximately spherical

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		Number Issue	PD-5065 6-14.03.2018
Packaging	Standard Packaging: <i>AMPERSINT</i> <sup>®</sup> and <i>AMPERWELD</i> <sup>®</sup> 100 kg in steel drums (30 l) with polyethylen 6 drums on one CP pallet, one packaging u Other packaging on request. <i>AMPERIT</i> <sup>®</sup> 5 kg in one 2.5 l PE bottle, 6 bottles (30 kg)	nit of 600 kg.	ard box.
Storage and Handling	Storage and handling are subject to the rule in the country of use.	es and regulation	ons
Hazards identification in A	Advertising (REGULATION (EC) No 1272/20 Carcinogenicity Category 1B Carcinogenicity Category 2 Specific target organ toxicity – repeated exp Respiratory sensitisation Category 1 Skin sensitisation Category 1 Eye irritation Category 2 Reproductive toxicity Category 2 Acute aquatic toxicity Category 1 Acute toxicity Category 4 Chronic aquatic toxicity Category 1		
Documentation	An inspection document in accordance with shipment.	EN 10204 is s	supplied with every
Remarks	Always mix well before using. Other grain sizes on request.		

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### https://www.hoganas.com/en/contact/

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