



## **AMPERPRINT® 0742 15 – 5 PH**

### **The Powder to Create**

We have designed our high-quality **AMPERPRINT®** metal powders specifically for the requirements of additive manufacturing. For your optimal results, our powders are fully dense, have an excellent flowability, a spherical shape and are perfectly reproducible. We can produce any quantity of your customized powders, from lab scale up to medium or industrial scale production to support you properly through the various stages of your product development. With **AMPERPRINT®** you have the pow(d)er to create.

#### Short product information

<b>Product designation</b>	<b>AMPERPRINT® 0742.074 45/15 µm</b>
<b>Atomization</b>	Vacuum Induction Melting (VIM) Atomized with Argon
<b>Powder characteristics</b>	Full Density Excellent Flowability Perfect Reproducibility High packing density
<b>Particle shape</b>	Spherical
<b>Processes</b>	All AM processes (SLM, EBM, LMD)
<b>Particle sizes available on stock</b>	45/15 µm All other particle size distributions are available on request!



Right in step with our customers' requirements and latest market developments, we have developed high-alloyed **AMPERPRINT®** metal powders of all major standard compositions as well as customized solutions. To produce high-quality components, different AM systems require different powder characteristics. Therefore, our powders are available in a wide range of particle size distributions covering the full range of additive manufacturing processes, including but not limited to selective laser melting, electron beam melting and laser metal deposition.

Chemical Characteristics (Mass fraction in % [cg/g]; ppm [µg/g])			
Element	Min	Max	Unit
Cr	14.0	15.5	%
Ni	3.50	5.50	%
Cu	2.50	4.50	%
Nb	0.15	0.45	%
C		0.07	%
Mn		1.00	%
N		0.03	%
O		0.06	%
P		0.04	%
S		0.03	%
Si		1.00	%
Fe	balance		



## Physical characteristics

Particle size distribution	Min	Max	Unit
> 45 µm, ASTM B 214		5	%
< = 15 µm, ASTM B 822		5	%
Apparent density, ASTM B 212	3.50		g/cm <sup>3</sup>
Flowability, ASTM B 213	12	25	sec/50g

## Other information

<b>Packaging</b>	Standard Packaging 5 kg in one 2.5 l PE bottle, 6 bottles (30 kg) in one cardboard box. 30 l-steel drums with PE-Inliner.
<b>Storage and Handling</b>	Storage and handling are subject to the rules and regulations in the country of use.
<b>Hazards identification in Advertising (REGULATION (EC) No 1272/2008 Article 48)</b>	Carcinogenicity Category 2 Specific target organ toxicity – repeated exposure Category 2 Skin sensitisation Category 1
<b>Documentation</b>	An inspection document in accordance with EN 10204 is supplied with every shipment.

The conditions of your use and application of our products, technical assistance and information (whether verbal, written or by way of production evaluations), including any suggested formulations and recommendations, are beyond our control. Therefore, it is imperative that you test our products, technical assistance and information to determine to your own satisfaction whether they are suitable for your intended uses and applications. This application-specific analysis at least must include testing to determine suitability from a technical as well as health, safety, and environmental standpoint. Such testing has not necessarily been done by Höganäs Germany GmbH. All information is given without warranty or guarantee. It is expressly understood and agreed that the customer assumes and hereby expressly releases Höganäs Germany GmbH from all liability, in tort, contract or otherwise, incurred in connection with the use of our products, technical assistance and information. Any statement or recommendation not contained herein is unauthorized and shall not bind Höganäs Germany GmbH. Nothing herein shall be construed as a recommendation to use any product in conflict with patents covering any material or its use. No license is implied or in fact granted under the claims of any patent. In case of order please refer to issue number of the respective product data sheet. All deliveries are based on the latest issue of the product data sheet and the latest version of our General Conditions of Sale and Delivery.

## Höganäs Germany GmbH

Im Schleeke 78-91  
38642 Goslar/Germany

Säckinger Straße 51  
79725 Laufenburg/Germany

Phone +49 5321 751-53753  
[info@hoganas.com](mailto:info@hoganas.com)