

AMPERIT[®] 865

Chemical Formula	Mn _{1.0} Co _{1.9} Fe _{0.1} O ₄
Chemical Name	Manganese-Cobalt-Iron-Spinell
Description of Product	Agglomerated, Sintered
Particle Sizes Available	Product Designation AMPERIT [®] 865.054 45/10 µm

Chemical Characteristics

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

Mn	22.7 - 23.7	%
Stoichiometric factor (Mn)*	0.99 - 1.01	
Co	46.5 - 48.1	%
Stoichiometric factor (Co)*	1.89 - 1.91	
Fe	2.3 - 2.5	%
Stoichiometric factor (Fe)*	0.09 - 0.11	
Al	100	ppm
Cr	100	ppm
Cu	100	ppm
K	100	ppm
Mg	100	ppm
Na	100	ppm
Ni	150	ppm
Si	100	ppm
Ti	100	ppm

Physical Characteristics

Particle Size Distribution¹⁾

D 90 %	47 - 53	µm
D 50 %	26 - 32	µm
D 10 %	13 - 17	µm
Tap Density	1.7 - 2.4	g/cm ³ acc. ASTM B 527

1) MICROTRAC by Laser Light Diffraction per ASTM C 1070.

* calculated stoichiometrically on basis of analyzed mass percentages of Mn:Co:Fe

Number	PD-4103
Issue	2-25.10.2017

Packaging	Standard Packaging 5 kg in one 2.5 l PE bottle, 6 bottles (30 kg) in one cardboard box.
Storage and Handling	Storage and handling are subject to the rules and regulations in the country of use.
Hazards identification in Advertising (REGULATION (EC) No 1272/2008 Article 48)	Respiratory sensitisation Sub-category 1B Chronic aquatic toxicity Category 3
Documentation	An inspection document in accordance with EN 10204 is supplied with every shipment.

Höganäs Germany GmbH

Im Schleeke 78-91
38642 Goslar/Germany

Säckinger Straße 51
79725 Laufenburg/Germany

Phone +49 5321 751-53753

<https://www.hoganas.com/en/contact/>

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.