

TECHNICAL DATA SHEET

Date of Issue: 2016/09/02

Zirconium Metal powder, Grade XP, dry

CAS-No. 7440-67-7

EC-No. 231-176-9

Molecular Formula Zr

Product Number 453150

APPLICATION

In vacuum technology as a getter material; in powder metallurgy as an alloying constituent; in pyrotechnics for the manufacture of high energy initiators, fuzes and thermal batteries.

FURTHER INGREDIENTS

Hafnium

CAS-No. 7440-58-6

EC-No. 231-166-4

SPECIFICATION

Zr(active) + Hf(active)	min. 95 %
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Auto ignition temperature	approx. 250 °C
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Average particle size (Blaine)	6 +/- 2 µm
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METHOD OF ANALYSIS

Determination of oxidation value, particle distribution, average particle size, specific surface area and combustion characteristics; gravimetric analysis of zirconium, determination of hydrogen content and impurities. For specific information on Albemarle standard determination methods see our delivery program.

PHYSICAL PROPERTIES

Appearance powder

Color dark gray

The information presented herein is believed to be accurate and reliable, but is presented without guarantee or responsibility on the part of Albemarle Corporation and its subsidiaries and affiliates. It is the responsibility of the user to comply with all applicable laws and regulations and to provide for a safe workplace. The user should consider any health or safety hazards or information contained herein only as a guide, and should take those precautions which are necessary or prudent to instruct employees and to develop work practice procedures in order to promote a safe work environment. Further, nothing contained herein shall be taken as an inducement or recommendation to manufacture or use any of the herein materials or processes in violation of existing or future patent.

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 **ALBEMARLE**[®]

Melting point/ range	1,852 °C
Boiling point/boiling range	3,577 °C
Density	6.5 g/cm ³ at 20 °C
Bulk density	1,200 - 2,300 kg/m ³
Water solubility	(practically insoluble)

HANDLING & STORAGE

Handling Highly flammable solid. Dust explosion hazard.

A zirconium powder with maximum metal content, which burns at white heat. Compared with its relative coarse particle size it burns very fast.

Keep away from flames, sparks and heat sources; use ground-connected metallic apparatus to avoid sudden ignition by electrostatic discharge; self-ignition is possible; vacuum-drying of suspensions not recommended; wear gloves, a face shield or goggles; in case of fire, cover only with dry sand, limestone or with a dry extinguishing powder suitable for metal fires class D;

DO NOT USE WATER!

Refer to our safety data sheet and special precautionary advice for specific safety information!

TRANSPORT & PACKAGING

UN number 2008

ADR	Class: 4.2	PG: I	Label: 4.2
RID	Class: 4.2	PG: I	Label: 4.2
IMDG	Class: 4.2	PG: I	Label: 4.2
IATA_C	Class: 4.2		
IATA_P	Class: 4.2		

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Hazard pictograms



Signal Word Danger

H&P Phrases See Safety Data Sheet

Labelling The labelling is according to EU-GHS classification ((EG) 1272/2008) and may vary in other countries. Please refer to the respective Safety Data Sheet for your country.

Packaging

In tin cans with a content of max. 5 kg capacity.

OTHER INFORMATION

Further Related Safety Data Sheet
Documents

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