



Zirconium hydride Grade G

Article Number	453310
CAS-No.	7704-99-6
Formula	ZrH ₂
Applications	For the production of highly effective getters, to be activated by dehydrogenation; as a safe to use component in powder metallurgy; for illumination effects in pyrotechnics. Applicable as hydrogen source for the foaming of metals.
Characteristics	Highly flammable solid. Dust explosion hazard. A zirconium hydride powder of high purity and low oxide content; due to coarse particle size and hydrogen content less ignitable than other grades.
Delivery Form	greyish-black powder
Ignition Point	200 - 310 °C
Combustion Rate	1300 ± 600 sec/50 cm
Particle Size	min. 99.9 % < 45 µm ; average particle size acc. to Blaine 5.5 ± 1 µm
Gain on Ignition	31.8 ± 0.7 % (weight increase by combustion)

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Typical Analysis	Zr + Hf	total	97.6 ±0.5	%
	Hf	approx.	2	% (natural content)
	H	min.	1.9	%
	Ti	max.	0.3	%
	Si	max.	0.5	%
	Ca total	max.	0.15	%
	Mg	max.	0.2	%
	Fe	max.	0.08	%
	Al	max.	0.3	%
	Cl	max.	0.05	%
Ca soluble	max.	0.05	%	

**Recommended
Test Methods** Determination of oxidation value, particle size distribution and average particle size; gravimetric analysis of zirconium, determination of hydrogen content and impurities by special procedures.

Handling Do not process close to open flame; use ground connected metallic apparatus to prevent sudden ignition by electrostatic discharge; unlimited shelf life; in case of fire, cover only with sand or suitable dry fire extinguishing powder, never use water.

See our safety data sheet and special precautionary advice in this delivery program!

Packaging Dry, in tin cans of max. 5 kg capacity.

Transport Please refer to our MSDS.

Classification