



Magnesium metal powder

Article number 45 8180

CAS-No. 7439-95-4

Formula Mg

Applications As a constituent of light alloys; in pyrotechnics; in metallurgy as deoxidizing and desulfuring agent; for flash bulbs and flares; aluminio-thermic mixtures; intense signal lights; for Grignard reagents in organic synthesis.

Typical Properties **Flammable solid. Contact with water liberates highly flammable gases!**

Silvery white metal powder, stable in dry atmosphere, slowly oxidizes in moist air, very slow reaction with water at ordinary temperatures. Reacts readily with diluted acids liberating hydrogen and with methyl alcohol at elevated temperature forming magnesium methylate. Strong reducing agent for several metallic and non-metallic oxides. Combines directly with halogens, nitrogen, sulfur and others. Powder is easily ignited and presents a dust explosion hazard.

Atomic Weight 24.312 g/mol

Delivery Form Powder

Magnesium metal powder

	Type A	Type B	Type C	Type D	Type F
Mg metallic (min. %)	98.0	99.0	98.0	98.0	99.0
Oxides (max. %)	2.0	1.0	2.0	2.0	1.0
Fe (max. %)	0.1	0.1	0.1	0.1	0.1
Apparent density (g/cm ³)	0.7 – 0.8	0.7 – 0.9	0.5 – 0.6	0.4 – 0.6	0.4 – 0.8
Loss in weight (%)	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Acetone extract (%)	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02

Sieve Analysis	Type A		
		> 315 µm	0 – 20 %
	> 200 µm	60 – 80 %	
	> 160 µm	20 – 30 %	
	< 160 µm	0 – 12 %	
Type B	> 400 µm	0.0 %	
	> 315 µm	max. 10 %	
	> 100 µm	90 – 99.5 %	
	< 100 µm	max. 0.5 %	
Type C	> 160 µm	max. 15 %	
	> 100 µm	max. 60 %	
	> 71 µm	25 – 75 %	
	> 63 µm	min. 25 %	
	< 63 µm	min. 10 %	
Type D	> 100 µm	max. 10 %	
	> 63 µm	max. 60 %	
	< 63 µm	min. 30 %	
Type F	> 250 µm	max. 10 %	
	< 100 µm	max. 10 %	

Handling See our safety data sheet!

Packaging In steel containers of 50 and 75 kg

Transport classification GGVE, GGVS, RID, ADR: class 4.3 fig. 14 b)
IMDG-code: class 4.3 UN-No. 1418, PG. II
ICAO: class 4.3 UN-No. 1418, PG. II/
Drill-Code 4W

Other qualities available on request!

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Chemetall GmbH

Special Metals Division

Trakehner Straße 3
D-60487 Frankfurt am Main
P.O. Box 90 01 70
D-60441 Frankfurt a.M.
Phone +49 69 7165-3911
Fax +49 69 7165-2523
Mail specialmetals@chemetall.com

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