Titanium Copper alloy 75/25

Article Number	454310	
CAS-No.	12054-14-7	
Typical Properties	Formula:	TiCu
	Form and Color:	powder, grey

Applications

Titanium copper alloy powder finds application in various metallurgical and specialty areas. It is used as an aid in brazing ceramics to metals, metalization coatings of nonmetals and alloying.

Characteristics

Highly flammable solid. Dust explosion hazard.

TiCu 75/25 alloy powder is resistant to most chemical reagents but is attacked by acids and by oxidizing agents. Dilute aqueous HF attacks TiCu 75/25 alloy vigorously.

Typical Analysis

Particle Size	min. 99 % < 45 µm
Average Particle Size	7.5 ± 2.5 µm
Ti	74.0 ± 2.0 %
Cu	24.5 ± 2.0 %
O	max. 1.65 %
N	max. 0.2 %
Mg	max. 0.05 %
Zn	max. 0.05 %

Recommended Test Methods

Determination of average particle size, particle size distribution.
ICP analysis of Ti and Cu content.

Chemetall

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Handling

Keep away from flames, sparks and heat sources. Use ground connected metallic apparatus to prevent electrostatic charges causing self ignition. Mixing, blending, milling and grinding of Ti/Cu powder should only be done under Ar. In case of fire cover with dry sand or dry chemical/dolomite (powdered limestone). Never extinguish with water, carbon dioxide, or halocarbon.

See our material safety data sheet and special precautionary advice for more information on safety.

Packaging

Titanium copper alloy is packed in polyethylene bags overpacked in tin cans of 2.0 kg Ti/Cu capacity. Other packaging sizes on request.

Transport Classification

GGVE, GGVS, RID, ADR:	class 4.2, fig. 12 b
IMDG-code:	class 4.2 UN-No. 2546, PG. II
ICAO:	class 4.2 UN-No. 2546, PG. II

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