

WISDOM Thermal Spray Consumables

Oxide Ceramic Thermal Spray Powders



Al₂O₃-3TiO₂ powder

DATA SHEET

September 2015

Introduction

Al₂O₃-3TiO₂ powder is a gray Aluminum Oxide Thermal Spray Powder that is good for abrasion, erosion and sliding wear applications. The powder is tougher than pure alumina. The Operating temperatures can be up to 1100°C (2040 °F). Coatings of these materials are good in alkali and acid environments.

Physical Properties

Color	Working Temperature	Melting point
gray	≤1100°C	2040°C

Application

1. Textile production tool
2. Synthetic fiber manufacturing
3. Butterfly valves
4. dielectric applications

Chemical composition

Al ₂ O ₃ (typical)	TiO ₂ (typical)	SiO ₂ (max)	Fe ₂ O ₃ (max)	MgO (max)	CaO (max)	Others (max)
balance	2.5%-3.5%	< 0.5%	< 0.1%	< 0.2%	< 0.1%	----

Room 1202 No, 1288, Zhennan Road, Shanghai 200331, China

Tel: +86 21 61395047 / Fax: +86 21 61395049

Email: Jim@wisdomsino.com Website: wisdomsurface.com

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Standard Sizes & Packing

Granularity: $-15 +45 \mu\text{m}$ Other size can be customized

Packing: 5 kg/bottle 4 bottles/box

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