2025/01

SIKA® Shield
Boron Carbide

Submicron boron carbide for technical applications.

New processing techniques secure submicron B_4C to the highest quality with low oxygen and free carbon content.

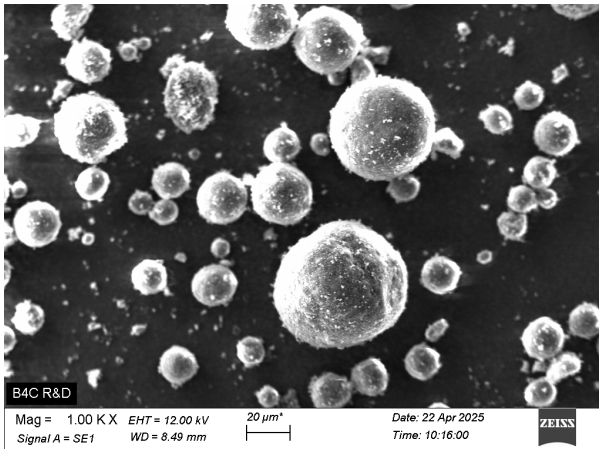
Chemical Formula	B_4C
Chemical Name	Boron Carbide
HS Number	28499010

Typical Chemical Characteristics

Tests	Results/Units	Methods
B	78.8%	Boron by Titration
C	18.1%	LECO Furnace
N	0.2%	LECO Furnace
Tot O_2	1.1%	LECO Furnace
Al	0.02%	ICP-MS
Fe	0.1%	ICP
Si	0.3%	ICP
Ti	0.003%	ICP-MS
H_2O Soluble B_2O_3	0.3%	ICP

Typical Physical Characteristics

Particle Size Distribution	Typical Values
ds 90%	2.2µm
ds 50%	0.9µm
ds 10%	0.3µm
BET Surface Area Measurement	
BET	15 m²/g



SIKA Silicon Carbide