



TECHNICAL DATA SHEET
HP GRADE SILICON CARBIDE GRANULES
99.99999% (7N)

REFERENCE		PLACE OF MANUFACTURE
Data Sheet #	DS1287	Alu-strasse 5
Release Date	29-Jan-24	06749 Bitterfeld-Wolfen
HS Code	28492000	Germany
CASRN	409-21-2	

PARAMETER	UNITS	VALUE	DET. LIMIT	METHOD
Crystal				
Polytype		3C		
Impurities				
Free C	ppmw	<500		XRD
Free Si	ppmw	<500		XRD
Total O	ppma	<500		SIMS
B	ppbw	<50		GDMS
P	ppbw	<50		GDMS
N	ppba	<250		SIMS
Bulk metals				GDMS
Al	ppbw		5	
Ca	ppbw		10	
Cr	ppbw		20	
Cu	ppbw		10	
Fe	ppbw		30	
Li	ppbw		5	
Mn	ppbw		5	
Na	ppbw		10	
Ni	ppbw		10	
Sc	ppbw		1	
Sr	ppbw		5	
Ti	ppbw		2	
V	ppbw		2	
W	ppbw		20	
Zn	ppbw		15	
Total bulk metals	ppbw	<500	150	

PARAMETER	UNITS	VALUE	+/-	METHOD
Particles				
Bulk density	g/cm3	1.83	0.06	ISO 1097-3
Min/max 3D dimensions		0.46	0.05	DIA ISO133322-2
PSD (mm)				ISO 3310-2
< 1.0	% wt	2.0	0.5	
1.0 - 2.8	% wt	20.0	5.0	
2.8 - 6.3	% wt	35.0	5.0	
6.3 - 9.0	% wt	40.0	5.0	
9.0 - 12.5	% wt	4.0	3.0	
> 12.5	% wt	1.0	2.0	
Packaging				
Bag wt	kg	5.00	0.05	
Bag material		LDPE		
Bag layers	ea	2		
Bag layer thickness	µm	200		
Bags/box (max)	ea	5		
Boxes/pallet (max)	ea	16		