

Product Specification				
Type of product:	LP_90 Boron carbide powder			
Size distribution:	From -325# to larger (granules)			
Chemistry				
Property	Min. (%w.t.)	Typical (%w.t.)	Max. (%w.t.)	Analysis Method / Notes
Boron Carbide (B ₄ C)	90 ±0.65	-	-	<u>Definition:</u> %B ₄ C = (%B _{TOT} - %B _{FREE}) + (%C _{TOT} - %C _{FREE})
Tot B + Tot C	98 ±0.45	-	-	Deduced from the measurement of Total Boron and Total Carbon
Total Boron (B _{TOT})	73.5 ±0.4	-	-	Alkali fusion – titration Following: JB/T 7993-2012 standard
Nitric Acid Soluble Boron (B _{FREE})	-	-	2.0 ±0.05	Nitric acid extraction – titration This method measures %B _{FREE} = (%B ₂ O ₃ + %B _{elemental}) Following: ASTM C791 standard
Boron Oxide (B ₂ O ₃)	-	-	2.0 ±0.05	Hydrochloric acid extraction – titration This method measures only %B ₂ O ₃ Following: ASTM C791 standard
Total Carbon (C _{TOT})	-	-	25 ±0.05	Inductive combustion – Infrared absorption of CO ₂ Following: ASTM C791 standard
Free Carbon (C _{FREE})	-	-	6.5 ±0.15	Wet chemical oxidation – titration Following: JB/T 7993-2012 standard
Iron Impurities (Fe)	-	-	1.0 ±0.03	Alkali fusion – titration Following: JB/T 7993-2012 standard
Particle Size Distribution				
Test Sieving Method	<u>+...#</u> ASTM	<u>-...#</u> ASTM	<u>Notes:</u>	
	max. %0	min. %100	Wet sieving	
Laser Particle Sizing	<u>D06</u>	<u>D50</u>	<u>D97</u>	<u>Notes:</u>
	-	-	-	Currently Not Available
Packaging				
25kg paper or PE bags or as per customers special requirements (steel drums (different pricing) or big bags etc...)			Shipped on pallettes.	