

QUEBEC METAL POWDERS LIMITED

SPECIFICATION

GRADE: **ATOMET DB48**

PROPERTIES	SPECIFICATIONS		METHOD
	Min.	Max.	
Apparent density, (g/cm ³)	2,97	3,12	ISO 3923-1
Flow, (s / 50g)	-----	30	ISO 4490
<u>PARTICLE SIZE ANALYSIS OF STEEL POWDER, (% BY WEIGHT)</u>			
	<u>U.S. MESH</u>	<u>MICRONS</u>	
	+60	+250	----- Trace
	-60 +100	-250 +150	----- 18,0
	-325	-45	10,0 30,0
			ISO 4497
			ISO 4497
			ISO 4497
<u>CHEMICAL ANALYSIS OF STEEL POWDER, (% BY WEIGHT)</u>			
Carbon	-----	0,01	ASTM E 1019
Oxygen	-----	0,15	ASTM E 1019
Sulphur	-----	0,014	ASTM E 1019
Copper	1,35	1,65	ASTM E 322
Manganese	0,10	0,18	ASTM E 322
Molybdenum	0,45	0,55	ASTM E 322
Nickel	3,60	4,40	ASTM E 322
<u>COMPACTING PROPERTIES, (1)</u>			
Green density at 600 MPa, (g/cc)	7,0	-----	ISO 3927
Green strength at 7,0 g/cc, (MPa)	10,0	-----	ISO 3995

NOTES:

(1) Rectangular bars as per MPIF STD # 15. Test mix: Fe - 0.6 C - 0.75 ZnSt.

Spec/EV/general metric/db48met

Rev.:05

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A. Lacombe