

**QUEBEC METAL POWDERS LIMITED**

**SPECIFICATION**

(Temporary)

**GRADE:**            **ATOMET 4201**

PROPERTIES	SPECIFICATIONS		METHOD
	Min.	Max.	
Apparent density, (g/cm <sup>3</sup> )	2,85	3,00	ISO 3923-1
Flow, (s / 50g)	-----	30	ISO 4490
<b><u>SCREEN ANALYSIS, (% BY WEIGHT)</u></b>			
	<u>U.S. MESH</u>	<u>MICRONS</u>	
	+60	+250	
	-60	+100	-----
	-100	+325	Trace
	-325	-150	18,0
		-45	-----
			15,0
			35,0
			ISO 4497
			ISO 4497
			ISO 4497
			ISO 4497
<b><u>CHEMICAL ANALYSIS, (% BY WEIGHT)</u></b>			
Carbon		-----	0.010
Oxygen		-----	0.18
Sulphur		-----	0.014
Manganese		0.25	0.35
Molybdenum		0.55	0.65
Nickel		0.40	0.50
			ASTM E 1019
			ASTM E 1019
			ASTM E 1019
			ASTM E 322
			ASTM E 322
			ASTM E 322
<b><u>COMPACTING PROPERTIES</u></b> <sup>(1)</sup>			
Green density at 600 MPa, (g/cm <sup>3</sup> )		7,00	ISO 3927
Green strength at 600 MPa, (MPa)		13,0	ISO 3995

**Notes:**

(1) Test mix : Fe - 0.75 Wax. Tentative limits. To be re-evaluated.

Spec/EV/general/4201met.xls

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