

# QUEBEC METAL POWDERS LIMITED

## **SPECIFICATION**

**GRADE:            ATOMET 4601**

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>			
	<b><u>U.S. MESH</u></b>	<b><u>MICRONS</u></b>	
	+60	+250	
	-60    +100	-250    +150	
	-325	-45	
			Trace
			18,0
			35.0
			15.0
			35.0
			15.0
			35.0
			15.0
			35.0
<b><u>CHEMICAL ANALYSIS, (% BY WEIGHT)</u></b>			
Carbon	----	0.010	ASTM E 1019
Oxygen	----	0.15	ASTM E 1019
Sulphur	----	0.014	ASTM E 1019
Manganese	0.16	0.25	ASTM E 322
Molybdenum	0.50	0.60	ASTM E 322
Nickel	1.75	1.85	ASTM E 322
<b><u>COMPACTING PROPERTIES <sup>(1)</sup></u></b>			
Green density at 600 MPa, (g/cm <sup>3</sup> )	6,85	----	ISO 3927
Green strength at 600 MPa, (MPa)	12,5	----	ISO 3995

**Notes:**

(1) Test mix : Fe - 0.75 Wax.

Spec/EV/general/4601met.xls

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