

# QUEBEC METAL POWDERS LIMITED

## SPECIFICATION

**GRADE:      ATOMET 29M**

PROPERTIES	SPECIFICATIONS		METHOD
	Min.	Max.	
Apparent density, (g/cm <sup>3</sup> )	2.91	3.01	ISO 3923-1
Flow, (s / 50g)	-----	30	ISO 4490
<b><u>PARTICLE SIZE ANALYSIS OF IRON POWDER, (% BY WEIGHT)</u></b>			
	<u>U.S. MESH</u>	<u>MICRONS</u>	
	+60	+250	
	-60 +70	-250 +212	----- 0.1 ISO 4497
	-70 +100	-212 +150	----- 0.2 ISO 4497
	-100 +325	-150 +45	----- 12.0 ISO 4497
	-325	-45	----- ----- ISO 4497
		15.0	30.0 ISO 4497
<b><u>CHEMICAL ANALYSIS OF IRON POWDER, (% BY WEIGHT)</u></b>			
Carbon	-----	0.10	ASTM E 1019
Oxygen	-----	0.25	ASTM E 1019
Sulphur	-----	0.014	ASTM E 1019
<b><u>COMPACTING PROPERTIES <sup>(1)</sup></u></b>			
Green density at 420 MPa, (g/cm <sup>3</sup> )	6.60	-----	ISO 3927
Green strength at 420 MPa, (MPa)	8.0	-----	ISO 3995

**NOTES:**

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

**ATOMET 29M is protected by, among others, U.S. patent # 4927461.**

Spec/EV/general/29Mmet\_cm.xls

Rev.:00

2010-02-18

A. Lacombe