

QUEBEC METAL POWDERS LIMITED

SPECIFICATION

(TEMPORARY *)

GRADE: **ATOMET 4901**

PROPERTIES	SPECIFICATIONS		METHOD
	Min.	Max.	
Apparent density, (g/cm ³)	2.90	3.10	ISO 3923-1
Flow, (s / 50g)	----	30	ISO 4490
<u>PARTICLE SIZE ANALYSIS, (% BY WEIGHT)</u>			
	<u>U.S. MESH</u>	<u>MICRONS</u>	
	+60	+250	
	-60 +100	-250 +150	Trace
	-100 +325	-150 +45	18,0
	-325	-45	15,0
			35,0
			ISO 4497
			ISO 4497
			ISO 4497
			ISO 4497
<u>CHEMICAL ANALYSIS, (% BY WEIGHT)</u>			
Carbon	----	0.010	ASTM E 1019
Oxygen	----	0.15	ASTM E 1019
Sulphur	----	0.014	ASTM E 1019
Manganese	0.10	0.18	ASTM E 322
Molybdenum	1.35	1.65	ASTM E 322
<u>COMPACTING PROPERTIES</u> ⁽¹⁾			
Green density at 600 MPa, (g/cm ³)	6,98	----	ISO 3927
Green strength at 600 MPa, (MPa)	9,0	----	ISO 3995

NOTES:

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

* Tentative limits. To be re-evaluated.