



CERTIFICATE OF ANALYSIS

GRADE: ATOMET 28HC	LOT NUMBER: 136107
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C U S T O M E R	GG28HC	YOUR ORDER NUMBER: OUR ORDER NUMBER: CUSTOMER CODE:
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PROPERTIES	RESULTS	SPECIFICATIONS		METHODS
		Min.	Max.	
Apparent density, g/cm ³	3.03	2.90	3.05	MPIF_04
Flow rate, s/50 g	23.8	---	30.0	MPIF_03
<u>PARTICLE SIZE ANALYSIS OF IRON POWDER</u> ⁽¹⁾				
U.S. MESH MICRONS				
+60 +250	Trace	---	0.1	ASTM_B822
-60 +70 -250 +212	Trace	---	0.2	ASTM_B822
-70 +100 -212 +150	6.9	---	12.0	ASTM_B822
-100 +325 -150 +45	72.9	---	---	ASTM_B822
-325 -45	20.1	15.0	30.0	ASTM_B822
<u>CHEMICAL ANALYSIS OF IRON POWDER, %</u>				
Carbon	0.908	0.850	0.950	ASTM_E_1019
Oxygen	0.11	---	0.25	ASTM_E_1019
Sulphur	0.0055	---	0.0140	ASTM_E_1019
<u>COMPACTING PROPERTIES</u> ⁽²⁾				
Compacting pressure at 6.45 g/cm ³ , tsi	40.4	---	50.0	MPIF_45
Green strength at 6.45 g/cm ³ , psi	1435	1000	---	MPIF_15
<u>SINTERED PROPERTIES</u>				
Dimensional change from die size, %	-0.29	---	---	MPIF_44
Dimensional change, diff. from std, %	0.00	-0.10	0.10	MPIF_44
Transverse rupture strength, psi	155793	---	---	MPIF_41
T.R.S., difference from standard, psi	-6396	-15000	15000	MPIF_41
Hardness HRB	59	---	---	MPIF_43
Hardness, difference from standard HRB	-2	-8	8	MPIF_43

(1) Test method standardized according to MPIF-05 and ISO 4497
 (2) Test mix: Fe - 0.75 Znst
 Certificate of analysis according to DIN EN 10204-3.1