



Certificat d'essai/Test Certificate

ArcelorMittal

Usine de Longueuil / Longueuil Works

Vendue à - Sold to CRAWFORD METAL CORPORATION 1091 Heritage Road BURLINGTON ON L7L 4Y1 CANADA	Expédié à - Shipped to CRAWFORD METAL CORPORATION 1091 Heritage Road Burlington ON L7L 4Y1
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No de com. Sale order	No de bon de comm. Customer Order	Connaissance Bill of lading	Date expé. Date shipped	Date du cert Certificate Date	No de Certificat Certificate no
130078	110792	80707612	2014/10/01	2014/10/01	0000309251

Article Item	Description	No Matériel Material No	No pièce Part No	Poids expédié Weight	Coulée Heat
000001	Merchant Bars, Rounds, Cut to Length 0.750" G40.21 44W 50W 20'00" 0	20015525	0000000000	84,860LB	M060651_1 C112098_1 M060652_1 M060653_1

ANALYSE CHIMIQUE-CHEMICAL ANALYSIS (%)

Coulée/Heat:	C	Mn	P	S	Si	Cu	Ni	Cr	Mo	V	Nb	ALt	ALs
C112098_1	0.22	1.06	0.008	0.021	0.18	0.07	0.02	0.10	0.005	0.005	0.010	0.022	0.022
M060651_1	0.18	1.14	0.010	0.018	0.21	0.11	0.04	0.04	0.007	0.002	0.014	0.000	
M060652_1	0.19	1.16	0.010	0.015	0.24	0.09	0.03	0.05	0.007	0.003	0.015	0.000	
M060653_1	0.18	1.11	0.015	0.019	0.23	0.12	0.04	0.07	0.008	0.002	0.014	0.000	

Coulée/Heat:	N	Sn	Tit	Bt	Ca	Pb	As	Co	Sb	DI.	C.E.	#Dev
C112098_1	0.0026	0.003	0.002	0.0002	0.0018	0.000	0.002	0.004	0.001	0.81	0.52	
M060651_1	0.0068	0.004		0.0000	0.0003	0.001	0.006		0.004		0.00	
M060652_1	0.0064	0.003		0.0001	0.0003	0.001	0.005		0.004		0.00	
M060653_1	0.0057	0.004		0.0001	0.0001	0.001	0.006		0.003		0.00	

PROPRIÉTÉS MÉCANIQUES - MECHANICAL PROPERTIES

Coulée Heat	Yield L Elas. (KSI)	Tensile L.Ultime (KSI)	Elong 8" All 200mm (%)
C112098_1	53.7	79.5	21.0
M060651_1	56.1	82.2	23.0
M060652_1	58.7	82.5	23.5
M060653_1	54.8	81.5	23.5

Remarques/Remarks:

This steel was made in Canada

Signature:
Métallurgie (A/Q)
Metallurgy (Q/A)

Daniel Bonneau