


A01  ArcelorMittal ArcelorMittal Belgium NV ArcelorMittal Gent John Kennedylaan, 51 9042 Gent (België) Tel.: +32 9.347.31.11 Fax: +32 9.347.49.07	A02 CERTIFICATE ----- INSPECTION CERTIFICATE ACCORDING EN10204-3.1 OR EQUIVALENT.	A03 171340473 P. 01/05	A09 DISPATCH NOTE 1460470 DATE 04-08-2017	A06.1 CUSTOMER OY ALUSTEEL AB TELAKKATIE 4 FIN-23500 UUSIKAUPUNKI FINLAND 0740911
	A05 AUTHOR OF THE DOCUMENT AM GENT/ QUALITY DEPARTMENT	A08 ORDER NUMBER 29070 DATE	A07 YOUR ORDER NO 39145 DATE 03-04-2017	A06.2 DESTINATION OY ALUSTEEL AB HEPOKARINTIE 9 FIN-23500 UUSIKAUPUNKI FINLAND 074098
		CONTRACT NO FH72APLOO2	YOUR REFERENCES	
		OUR REFERENCES OBC-IN/DLIN		


BO1-BO4 MATERIAL - HOT ROLLED STEEL COILS ,PICKLED, STANDARD = ORDER ITEM O2 - EN 10025-2
(OO-00-2004) ORDER ITEM O4 20 12 14 16 10 06 08 - AM FCE
QUALITY ORDER ITEM O2 - S235JR+AR ORDER ITEM O4 20 12 14 16 10 06 08 - AMSTRONG355MC

BO9 ITEM	B10 WIDTH MM	B11 THICKNESS MM
02	1.500	3,00
04	1.500	3,00
20	1.500	8,00
12	1.250	3,00
14	1.250	4,00
16	1.250	5,00
10	1.500	6,00
06	1.500	4,00
08	1.500	5,00

CHEMICAL ANALYSIS
C70 STEELMAKING PROCESS: LD

BO9 ITEM	PACK NR	B13 GROSS WEIGHT KG	BO7 COIL NO	BO8 CAST N.	C71	C72	C73	C74	C75	C76	C77	C78	C79	C80	C81	C82	C83	C84	C85
					C	Mn	Si	P	S	N	Al_t	Ti	Cr	Ni	Cu	Nb	B	V	Mo
02	864138132	15560	3666621	17558	83	59	8	14	8	38	32	1	24	24	12	0	1	1	2
	864144041	19560	4051705	18017	79	35	7	14	10	36	33	0	36	28	32	0	1	2	3
	864152862	21340	4437437	18018	77	35	9	13	12	38	33	1	35	28	34	0	1	1	2
	3	56460																	
04	864150147	21600	4180250	19172	68	35	10	10	4	49	34	1	25	25	17	27	1	3	2
	864150157	19800	4180267	19151	64	36	7	9	8	40	27	1	22	25	24	26	1	2	2
	864154989	20020	4262475	19156	64	37	9	9	7	50	31	1	23	28	33	22	1	3	2
	864155001	21070	4262499	19148	67	37	8	11	4	32	22	1	18	21	8	25	1	3	2
	864155004	20840	4262482	18876	66	35	7	6	6	46	46	1	22	26	24	26	1	1	2
	864157271	20160	4324625	19146	64	39	11	9	4	54	32	1	20	21	8	27	1	2	1
	6	123490																	
20	864126862	14870	3829114	17366	68	52	9	15	6	52	41	2	26	34	38	26	1	1	5
	864126880	17660	3694192	17366	68	52	9	15	6	52	41	2	26	34	38	26	1	1	5
	864126885	21670	3694208	17513	70	53	12	15	6	45	54	2	25	27	28	29	1	2	2
	864126893	21700	3694215	17512	72	51	10	15	7	47	35	2	27	29	33	27	1	2	3
	864126906	21740	3694222	17513	70	53	12	15	6	45	54	2	25	27	28	29	1	2	2
	5	97640																	


CO4 CONDITION OF THE SPECIMEN CO2 DIRECTION SPECIMEN
V:AGED F:NON-AGED N:NORMALISED L:OGR S:45GR D:9OGR

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	A05 AUTHOR OF THE DOCUMENT AM GENT/ QUALITY DEPARTMENT	A08 ORDER NUMBER 29070 DATE	A07 YOUR ORDER NO 39145 DATE 03-04-2017	A06.2 DESTINATION OY ALUSTEEL AB HEPOKARINTIE 9 FIN-23500 UUSIKAUPUNKI FINLAND 074098
		CONTRACT NO FH72APLOO2	YOUR REFERENCES	
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 (OO-OO-2004) ORDER ITEM 04 20 12 14 16 10 06 08 - AM FCE
 QUALITY ORDER ITEM 02 - S235JR+AR ORDER ITEM 04 20 12 14 16 10 06 08 - AMSTRONG355MC

CHEMICAL ANALYSIS C70 STEELMAKING PROCESS: LD																				
BO9 ITEM	PACK NR	B13 GROSS WEIGHT KG	BO7 COIL NO	BO8 CAST N.	C71 C	C72 Mn	C73 Si	C74 P	C75 S	C76 N	C77 Al_t	C78 Ti	C79 Cr	C80 Ni	C81 Cu	C82 Nb	C83 B	C84 V	C85 Mo	
					10 ⁻³ %	10 ⁻² %	10 ⁻³ %	10 ⁻³ %	10 ⁻³ %	10 ⁻⁴ %	10 ⁻³ %	10 ⁻³ %	10 ⁻³ %	10 ⁻³ %	10 ⁻³ %	10 ⁻³ %	10 ⁻⁴ %	10 ⁻³ %	10 ⁻³ %	
12	864153267 1	18220 18220	4223610	19181	63	36	7	10	5	36	36	1	22	25	15	28	1	2	1	
14	864149237 1	21730 21730	4201827	18629	69	52	9	16	7	53	34	1	22	24	16	26	1	2	2	
16	864131095 1	22060 22060	3845536	18371	79	56	8	16	7	56	33	1	31	27	29	26	1	3	4	
10	864109565 864109571 864109574 864111644 864122395 864122405 864126525 7	21800 21790 21770 17440 19280 21690 21930 145700	3415492 3415508 3415515 3407453 3588615 3588622 3693078	17514 17514 17514 17364 17390 17514 17519	70 70 70 68 71 70 74	53 53 53 53 56 53 53	6 6 7 7 9 9 9	16 16 16 14 15 16 15	6 6 6 6 6 6 6	44 44 44 50 42 44 48	47 47 48 31 36 47 35	1 1 1 1 1 1 1	24 24 24 23 25 24 24	27 27 27 25 25 27 27	28 28 28 17 14 28 13	25 25 25 23 26 28 27	1 1 1 1 1 1 1	1 1 1 2 3 1 3	2 2 2 2 3 2 3	
06	864109742 864109754 864109767 864109777 864109781 864111658 864122473 864122490 8	21780 21800 21740 21730 21590 21670 21800 19300 171410	3414651 3414675 3414668 3406391 3406384 3407484 3588844 3588851	17514 17513 17510 17514 17510 17512 17514 17440	70 70 69 70 69 72 70 73	53 53 52 53 52 51 53 54	6 12 13 7 13 10 6 8	16 15 17 16 17 15 16 14	6 6 6 6 6 7 6 5	44 45 36 44 36 47 44 48	47 54 25 48 25 35 47 29	1 2 1 1 1 2 1 1	24 25 26 24 26 27 24 21	27 27 29 27 29 29 27 21	28 28 32 28 32 33 28 10	25 29 25 25 25 27 25 25	1 1 1 1 1 1 1 1	1 2 5 1 5 2 1 2	2 2 3 2 3 3 2 2	
08	864109552 864109558	21700 21760	3415461 3415478	17513 17513	70 70	53 53	12 12	15 15	6 6	45 45	54 54	2 2	25 25	27 27	28 28	29 29	1 1	2 2	2 2	

CO4 CONDITION OF THE SPECIMEN V:AGED F:NON-AGED N:NORMALISED CO2 DIRECTION SPECIMEN L:OGR S:45GR D:9OGR


AO1  ArcelorMittal ArcelorMittal Belgium NV ArcelorMittal Gent John Kennedylaan, 51 9042 Gent (België) Tel.: +32 9.347.31.11 Fax: +32 9.347.49.07	AO2 CERTIFICATE ----- INSPECTION CERTIFICATE ACCORDING EN10204-3.1 OR EQUIVALENT.	AO3 171340473 P. 03/05	AO9 DISPATCH NOTE 1460470 DATE 04-08-2017	AO6.1 CUSTOMER OY ALUSTEEL AB TELAKKATIE 4 FIN-23500 UUSIKAUPUNKI FINLAND 0740911
	AO5 AUTHOR OF THE DOCUMENT AM GENT/ QUALITY DEPARTMENT	AO8 ORDER NUMBER 29070 DATE	AO7 YOUR ORDER NO 39145 DATE 03-04-2017	AO6.2 DESTINATION OY ALUSTEEL AB HEPOKARINTIE 9 FIN-23500 UUSIKAUPUNKI FINLAND 074098
		CONTRACT NO FH72APLOO2	YOUR REFERENCES	
		OUR REFERENCES OBC-IN/DLIN		

BO1-BO4 MATERIAL - HOT ROLLED STEEL COILS ,PICKLED, STANDARD = ORDER ITEM O2 - EN 10025-2
 (OO-OO-2004) ORDER ITEM O4 20 12 14 16 10 O6 O8 - AM FCE
 QUALITY ORDER ITEM O2 - S235JR+AR ORDER ITEM O4 20 12 14 16 10 O6 O8 - AMSTRONG355MC

CHEMICAL ANALYSIS C70 STEELMAKING PROCESS: LD																			
BO9 ITEM	PACK NR	B13 GROSS WEIGHT KG	BO7 COIL NO	BO8 CAST N.	C71 C	C72 Mn	C73 Si	C74 P	C75 S	C76 N	C77 Al_t	C78 Ti	C79 Cr	C80 Ni	C81 Cu	C82 Nb	C83 B	C84 V	C85 Mo
					10 ⁻³ %	10 ⁻² %	10 ⁻³ %	10 ⁻³ %	10 ⁻³ %	10 ⁻⁴ %	10 ⁻³ %	10 ⁻³ %	10 ⁻³ %	10 ⁻³ %	10 ⁻³ %	10 ⁻³ %	10 ⁻⁴ %	10 ⁻³ %	10 ⁻³ %
08	864109563	21800	3415485	17513	71	52	11	15	7	45	46	2	25	28	30	28	1	2	2
	864111649	21770	3407460	17513	70	53	12	15	6	45	54	2	25	27	28	29	1	2	2
	864112451	20720	3413926	17512	72	51	10	15	7	47	35	2	27	29	33	27	1	2	3
	864125711	21750	3693115	17513	70	53	12	15	6	45	54	2	25	27	28	29	1	2	2
	864127122	16110	3694796	17843	74	52	9	15	5	51	32	1	20	21	8	26	1	2	2
	7	145610																	
	39	802320																	

MECHANICAL PROPERTIES													
TENSILE TEST							C40 IMPACT (CHARPY V)						
BO9 ITEM	PACK NR	CO4	CO2	C11 YIELD R _{p0.2} MPa	C12 STRENGTH R _m MPa	C13 A %	CO2	C44 TKC C	C41 THICKNESS DiK mm	C42 KCV1 J	C42 KCV2 J	C42 KCV3 J	C43 KCV J
02	864138132	F	D	302	415	43							
	864144041	F	D	264	385	42							
	864152862	F	D	286	394	44							
	3												
04	864150147	F	L	393	479	35							
	864150157	F	L	389	472	36							
	864154989	F	L	390	469	36							
	864155001	F	L	377	473	36							
	864155004	F	L	389	479	37							
	864157271	F	L	384	477	36							
	6												
20	864126862	F	L	381	477	32	L	-40	8,00	197	188	205	197
	864126880	F	L	384	483	32	L	-40	8,00	196	201	188	195


CO4 CONDITION OF THE SPECIMEN V:AGED F:NON-AGED N:NORMALISED CO2 DIRECTION SPECIMEN L:OGR S:45GR D:9OGR

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BO1-BO4 MATERIAL - HOT ROLLED STEEL COILS ,PICKLED, STANDARD = ORDER ITEM O2 - EN 10025-2
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 QUALITY ORDER ITEM O2 - S235JR+AR ORDER ITEM O4 20 12 14 16 10 06 08 - AMSTRONG355MC

		MECHANICAL PROPERTIES											
		TENSILE TEST						C40 IMPACT (CHARPY V)					
BO9 ITEM	PACK NR	CO4	CO2	C11 YIELD R _{p0.2} MPa	C12 STRENGTH R _m MPa	C13 A %	CO2	C44 TKC C	C41 THICKNESS DiKC mm	C42 KCV1 J	C42 KCV2 J	C42 KCV3 J	C43 KCV J
20	864126885	F	L	388	490	32	L	-40	8,00	196	196	204	199
	864126893	F	L	389	490	32	L	-40	8,00	194	195	186	192
	864126906	F	L	372	481	32	L	-40	8,00	197	186	196	193
	5												
12	864153267	F	L	394	470	36							
	1												
14	864149237	F	L	390	495	34							
	1												
16	864131095	F	L	386	487	33							
	1												
10	864109565	F	L	381	482	32	L	-40	6,00	125	131	114	123
	864109571	F	L	391	484	33	L	-40	6,00	125	134	117	125
	864109574	F	L	390	488	32	L	-40	6,00	125	138	121	128
	864111644	F	L	388	474	34	L	-40	6,00	127	112	139	126
	864122395	F	L	389	488	32	L	-40	6,00	126	137	117	127
	864122405	F	L	387	483	31	L	-40	6,00	125	139	139	134
	864126525	F	L	383	473	34	L	-40	6,00	126	125	130	127
	7												
06	864109742	F	L	412	491	35							
	864109754	F	L	397	496	33							
	864109767	F	L	390	493	34							
	864109777	F	L	387	487	35							
	864109781	F	L	395	496	33							
	864111658	F	L	394	493	33							
	864122473	F	L	393	492	34							

CO4 CONDITION OF THE SPECIMEN V:AGED F:NON-AGED N:NORMALISED
 CO2 DIRECTION SPECIMEN L:OGR S:45GR D:9OGR

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		CONTRACT NO FH72APLOO2	YOUR REFERENCES	
		OUR REFERENCES OBC-IN/DLIN		

BO1-BO4 MATERIAL - HOT ROLLED STEEL COILS ,PICKLED, STANDARD = ORDER ITEM 02 - EN 10025-2
 (OO-OO-2004) ORDER ITEM 04 20 12 14 16 10 06 08 - AM FCE
 QUALITY ORDER ITEM 02 - S235JR+AR ORDER ITEM 04 20 12 14 16 10 06 08 - AMSTRONG355MC

		MECHANICAL PROPERTIES											
		TENSILE TEST						C40 IMPACT (CHARPY V)					
BO9 ITEM	PACK NR	CO4	CO2	C11 YIELD Rp0.2 MPa	C12 STRENGTH Rm MPa	C13 A %	CO2	C44 TKC C	C41 THICKNESS DiK mm	C42 KCV1 J	C42 KCV2 J	C42 KCV3 J	C43 KCV J
06	864122490 8	F	L	390	493	33							
08	864109552	F	L	397	499	32							
	864109558	F	L	391	497	31							
	864109563	F	L	390	491	31							
	864111649	F	L	390	491	33							
	864112451	F	L	394	498	32							
	864125711	F	L	402	491	33							
	864127122	F	L	408	488	33							

REMARKS



 TENSILE TEST SPECIMEN LC/LO/BO 120/ 5.65 SQR(SO)/ 20 MM.

GENT 14-08-2017

R. SLOCK
 QUALITY DEPARTMENT

 Z01

CO4 CONDITION OF THE SPECIMEN V:AGED F:NON-AGED N:NORMALISED	CO2 DIRECTION SPECIMEN L:OGR S:45GR D:9OGR
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 ArcelorMittal ArcelorMittal Belgium NV ArcelorMittal Gent John Kennedylaan, 51 9042 Gent (België) Tel.: +32 9.347.31.11 Fax: +32 9.347.49.07	CE label  0036	DISPATCH NOTE 1460470	CUSTOMER OY ALUSTEEL AB TELAKKATIE 4 FIN-23500 UUSIKAUPUNKI
		DATE 04-08-2017	
		ORDER NUMBER 29070	DESTINATION OY ALUSTEEL AB HEPOKARINTIE 9 FIN-23500 UUSIKAUPUNKI FINLAND 074098
		DATE	
		YOUR ORDER NO 39145	
		DATE 03-04-2017	
CONTRACT NO FH72APLOO2			
YOUR REFERENCES			
OUR REFERENCES OBC-IN/DLIN			

NUMMER DOP HR00006_CPR2013-07-01_FC_V007 NUMBER DOP http://dop.arcelormittal.net/pdf/HR00006_CPR2013-07-01_FC_V007_FI_FI.pdf		JAAR YEAR 13	TECHNISCHE SPECIFICATIE TECHNICAL SPECIFICATION AMSTRONG355MC AFCS
PAKNUMMER COILNUMBER	POST ITEM	EN 10025-1 WARMGEWALST CONSTRUCTIE STAAL VOORZIEN OM TE GEBRUIKEN IN GELASTE, GEBOUTE OF MET KLINKNAGELS VERBONDEN CONSTRUCTIES	EN 10025-1 HOT ROLLED STRUCTURAL STEEL PRODUCTS INTENDED TO BE USED IN WELDED, BOLTED AND RIVETED STRUCTURES
864138132 864144041 864152862	O2 O2 O2	TOLERANTIES OP DIMENSIES EN VORM: VOLGENS EN 10051 VERLENGING TREKSTERKTE VLOEIGRENS KERFSLAGWAARDE LASBAARHEID DUURZAAMHEID STAAL UITGEDRUKT ZOALS VERMELD IN DE DOP	TOLERANCES ON DIMENSIONS AND SHAPE: CONFORM TO EN 10051 ELONGATION TENSILE STRENGTH YIELD STRENGTH IMPACT STRENGTH WELDABILITY DURABILITY STEEL EXPRESSED AS INDICATED IN THE DOP