


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 171753983 P. 01/02	AO9 DISPATCH NOTE 1552171 DATE 10-10-2017	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 99455 DATE	AO7 YOUR ORDER NO 40361 DATE 10-08-2017	AO6.2 DESTINATION OY ALUSTEEL AB HEPOKARINTIE 9 FIN-23500 UUSIKAUPUNKI FINLAND 074098
		CONTRACT NO FH73ALU008	YOUR REFERENCES	
		OUR REFERENCES OBC-IN/DLIN		


BO1-BO4 MATERIAL - HOT ROLLED STEEL COILS ,PICKLED, STANDARD = AM FCE
 QUALITY AMSTRONG355MC

BO9 ITEM	B10 WIDTH	B11 THICKNESS
	MM	MM
02	1.500	8.00

CHEMICAL ANALYSIS
 C70 STEELMAKING PROCESS: LD

BO9 ITEM	PACK NR	B13 GROSS WEIGHT KG	B07 COIL NO	B08 CAST N.	C71	C72	C73	C74	C75	C76	C77	C78	C79	C80	C81	C82	C83	C84	C85
					C 10 ⁻³ %	Mn 10 ⁻² %	Si 10 ⁻³ %	P 10 ⁻³ %	S 10 ⁻³ %	N 10 ⁻⁴ %	Al_t 10 ⁻³ %	Ti 10 ⁻³ %	Cr 10 ⁻³ %	Ni 10 ⁻³ %	Cu 10 ⁻³ %	Nb 10 ⁻³ %	B 10 ⁻⁴ %	V 10 ⁻³ %	Mo 10 ⁻³ %
02	864226619	13590	5681798	21418	74	54	10	14	5	42	40	1	25	14	11	26	1	1	1
	864226629	14360	5681804	21418	74	54	10	14	5	42	40	1	25	14	11	26	1	1	1
	864226635	13620	5681811	21417	73	53	9	15	5	41	32	1	20	13	9	25	1	1	1
	864226642	13960	5836655	21417	73	53	9	15	5	41	32	1	20	13	9	25	1	1	1
	864226652	13790	5836662	21417	73	53	9	15	5	41	32	1	20	13	9	25	1	1	1
	864226661	14020	5836679	21417	73	53	9	15	5	41	32	1	20	13	9	25	1	1	1
	864226665	11480	5681828	21415	72	56	10	15	3	26	33	1	24	13	9	25	1	2	1
	864226672	15690	5836686	21415	72	56	10	15	3	26	33	1	24	13	9	25	1	2	1
	864226677	13620	5681835	21417	73	53	9	15	5	41	32	1	20	13	9	25	1	1	1
	864226688	14250	5681842	21417	73	53	9	15	5	41	32	1	20	13	9	25	1	1	1
	864226699	13950	5681859	21423	72	53	8	15	5	38	39	1	32	14	11	28	1	1	2
	864226710	14100	5836693	21423	72	53	8	15	5	38	39	1	32	14	11	28	1	1	2
	864226718	13690	5681866	21420	74	51	8	14	5	40	33	1	25	14	10	25	1	0	2
	864226733	14300	5836709	21420	74	51	8	14	5	40	33	1	25	14	10	25	1	0	2
	864231396	13810	5807923	21420	74	51	8	14	5	40	33	1	25	14	10	25	1	0	2
	864231405	14160	5807930	21422	71	53	13	14	4	36	32	2	25	14	10	26	1	1	2
	864231416	13990	5807947	21422	71	53	13	14	4	36	32	2	25	14	10	26	1	1	2
	864231424	27090	5807954	21420	74	51	8	14	5	40	33	1	25	14	10	25	1	0	2
	864231430	10880	5807978	21422	69	55	15	14	3	35	32	2	25	14	10	27	1	2	2
	864231442	28170	5812501	21417	72	54	10	15	4	35	32	1	21	13	9	25	1	1	1
	864231459	28190	5812525	21422	69	55	15	14	3	35	32	2	25	14	10	27	1	2	2
	864237610	28090	5900725	21417	73	53	9	15	5	41	32	1	20	13	9	25	1	1	1
	864237615	28190	5900732	21417	73	53	9	15	5	41	32	1	20	13	9	25	1	1	1
	864259405	27710	6321804	21422	69	55	15	14	3	35	32	2	25	14	10	27	1	2	2
	864259410	24570	6321828	22050	70	53	8	16	5	49	40	1	25	11	11	26	1	1	1
	25	439270																	
	25	439270																	

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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		OUR REFERENCES OBC-IN/DLIN		


BO1-BO4 MATERIAL - HOT ROLLED STEEL COILS ,PICKLED, STANDARD = AM FCE
 QUALITY 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	
02	864226619	F	L	379	475	31	L	-40	8,00	203	189	210	201	
	864226629	F	L	379	475	31	L	-40	8,00	203	203	218	208	
	864226635	F	L	380	472	29	L	-40	8,00	202	209	189	200	
	864226642	F	L	380	472	29	L	-40	8,00	202	203	212	206	
	864226652	F	L	381	477	33	L	-40	8,00	202	203	199	201	
	864226661	F	L	381	477	33	L	-40	8,00	202	203	213	206	
	864226665	F	L	383	485	33	L	-40	8,00	207	218	197	207	
	864226672	F	L	383	485	33	L	-40	8,00	207	208	218	211	
	864226677	F	L	379	472	34	L	-40	8,00	202	195	210	202	
	864226688	F	L	379	472	34	L	-40	8,00	202	203	213	206	
	864226699	F	L	368	479	32	L	-40	8,00	201	202	212	205	
	864226710	F	L	368	479	32	L	-40	8,00	201	202	213	205	
	864226718	F	L	362	472	33	L	-40	8,00	201	202	215	206	
	864226733	F	L	362	472	33	L	-40	8,00	201	202	215	206	
	864231396	F	L	374	471	32	L	-40	8,00	201	201	197	200	
	864231405	F	L	390	486	33	L	-40	8,00	205	200	208	204	
	864231416	F	L	390	486	33	L	-40	8,00	205	205	201	204	
	864231424	F	L	386	477	32	L	-40	8,00	202	202	195	200	
	864231430	F	L	364	475	33	L	-40	8,00	208	208	205	207	
	864231442	F	L	384	485	33	L	-40	8,00	204	219	210	211	
	864231459	F	L	384	496	33	L	-40	8,00	207	200	201	202	
	864237610	F	L	385	481	34	L	-40	8,00	202	191	193	195	
	864237615	F	L	360	471	33	L	-40	8,00	202	203	201	202	
	864259405	F	L	389	489	32	L	-40	8,00	207	216	218	214	
	864259410	F	L	363	474	33	L	-40	8,00	199	199	189	196	

REMARKS
 25
 TENSILE TEST SPECIMEN LC/LO/BO 120/ 5.65 SQR(SO)/ 20 MM.

R. SLOCK
 QUALITY DEPARTMENT
 GENT 10-10-2017

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		CONTRACT NO FH73ALU008	YOUR REFERENCES	
		OUR REFERENCES OBC-IN/DLIN		


BO1-BO4 MATERIAL - HOT ROLLED STEEL COILS ,PICKLED, STANDARD = EN 10149-2 (00-09-2013)
 QUALITY S355MC

BO9 ITEM	B10 WIDTH	B11 THICKNESS
	MM	MM
02	1.500	8.00

CHEMICAL ANALYSIS
 C70 STEELMAKING PROCESS: LD

BO9 ITEM	PACK NR	B13 GROSS WEIGHT	B07 COIL NO	B08 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
					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 %
02	864226619	13590	5681798	21418	74	54	10	14	5	42	40	1	25	14	11	26	1	1	1
	864226629	14360	5681804	21418	74	54	10	14	5	42	40	1	25	14	11	26	1	1	1
	864226635	13620	5681811	21417	73	53	9	15	5	41	32	1	20	13	9	25	1	1	1
	864226642	13960	5836655	21417	73	53	9	15	5	41	32	1	20	13	9	25	1	1	1
	864226652	13790	5836662	21417	73	53	9	15	5	41	32	1	20	13	9	25	1	1	1
	864226661	14020	5836679	21417	73	53	9	15	5	41	32	1	20	13	9	25	1	1	1
	864226665	11480	5681828	21415	72	56	10	15	3	26	33	1	24	13	9	25	1	2	1
	864226672	15690	5836686	21415	72	56	10	15	3	26	33	1	24	13	9	25	1	2	1
	864226677	13620	5681835	21417	73	53	9	15	5	41	32	1	20	13	9	25	1	1	1
	864226688	14250	5681842	21417	73	53	9	15	5	41	32	1	20	13	9	25	1	1	1
	864226699	13950	5681859	21423	72	53	8	15	5	38	39	1	32	14	11	28	1	1	2
	864226710	14100	5836693	21423	72	53	8	15	5	38	39	1	32	14	11	28	1	1	2
	864226718	13690	5681866	21420	74	51	8	14	5	40	33	1	25	14	10	25	1	0	2
	864226733	14300	5836709	21420	74	51	8	14	5	40	33	1	25	14	10	25	1	0	2
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	864231424	27090	5807954	21420	74	51	8	14	5	40	33	1	25	14	10	25	1	0	2
	864231430	10880	5807978	21422	69	55	15	14	3	35	32	2	25	14	10	27	1	2	2
	864231442	28170	5812501	21417	72	54	10	15	4	35	32	1	21	13	9	25	1	1	1
	864231459	28190	5812525	21422	69	55	15	14	3	35	32	2	25	14	10	27	1	2	2
	864237610	28090	5900725	21417	73	53	9	15	5	41	32	1	20	13	9	25	1	1	1
	864237615	28190	5900732	21417	73	53	9	15	5	41	32	1	20	13	9	25	1	1	1
	864259405	27710	6321804	21422	69	55	15	14	3	35	32	2	25	14	10	27	1	2	2
	864259410	24570	6321828	22050	70	53	8	16	5	49	40	1	25	11	11	26	1	1	1
		25	439270																
		25	439270																

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 = EN 10149-2 (00-09-2013)
 QUALITY S355MC

		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	
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	864226629	F	L	379	475	31	L	-40	8,00	203	203	218	208	
	864226635	F	L	380	472	29	L	-40	8,00	202	209	189	200	
	864226642	F	L	380	472	29	L	-40	8,00	202	203	212	206	
	864226652	F	L	381	477	33	L	-40	8,00	202	203	199	201	
	864226661	F	L	381	477	33	L	-40	8,00	202	203	213	206	
	864226665	F	L	383	485	33	L	-40	8,00	207	218	197	207	
	864226672	F	L	383	485	33	L	-40	8,00	207	208	218	211	
	864226677	F	L	379	472	34	L	-40	8,00	202	195	210	202	
	864226688	F	L	379	472	34	L	-40	8,00	202	203	213	206	
	864226699	F	L	368	479	32	L	-40	8,00	201	202	212	205	
	864226710	F	L	368	479	32	L	-40	8,00	201	202	213	205	
	864226718	F	L	362	472	33	L	-40	8,00	201	202	215	206	
	864226733	F	L	362	472	33	L	-40	8,00	201	202	215	206	
	864231396	F	L	374	471	32	L	-40	8,00	201	201	197	200	
	864231405	F	L	390	486	33	L	-40	8,00	205	200	208	204	
	864231416	F	L	390	486	33	L	-40	8,00	205	205	201	204	
	864231424	F	L	386	477	32	L	-40	8,00	202	202	195	200	
	864231430	F	L	364	475	33	L	-40	8,00	208	208	205	207	
	864231442	F	L	384	485	33	L	-40	8,00	204	219	210	211	
	864231459	F	L	384	496	33	L	-40	8,00	207	200	201	202	
	864237610	F	L	385	481	34	L	-40	8,00	202	191	193	195	
	864237615	F	L	360	471	33	L	-40	8,00	202	203	201	202	
	864259405	F	L	389	489	32	L	-40	8,00	207	216	218	214	
	864259410	F	L	363	474	33	L	-40	8,00	199	199	189	196	

REMARKS

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

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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GENT 10-10-2017

R. SLOCK
QUALITY DEPARTMENT



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