



Sede Legale e amministrativa:
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Customer
 DUFERCO SA
 VIA BAGUTTI 9
 6900 LUGANO CH

Consignee
 PORT OF ALTAMIRA
 28003 ALTAMIRA MX

Type
 Number
 Issued On

Inspection Certificate 3.1 EN 10204
 10417490144
 11/08/2017

Delivery Nn
 Of
 Delivery note nr

8504703551
 11/08/2017
 1004035140

Quality Control
 Q.M.D. M.Manaresi
 Plant Of Ravenna

Pages
 1/11

Identification Nr	Quantity	Heat	C (%)	Mn (%)	P (%)	S (%)	Cu (%)	Ni (%)	Cr (%)	Mo (%)	V (%)	Nb (%)	Ti (%)	Rm [ksi]	Re [ksi]	A (%)
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CF CF 0.075 X 36.000 CS-TYPE-B 001 002 ASTM-A1008 1171042330/10 CRC/ALTAMIRA/PL/LOT4 Date 00:00:00

17RC021576	9558 KG	368140	.050	.210	.018	.009	.070	.030	.030	.0030	.003	.002	.0020	49.23	36.88	34.2
17RC021593	9227 KG	368140	.050	.210	.018	.009	.070	.030	.030	.0030	.003	.002	.0020	49.23	36.88	34.2
17RC021594	9609 KG	368140	.050	.210	.018	.009	.070	.030	.030	.0030	.003	.002	.0020	49.16	36.27	34.8
17RC021945	9689 KG	268592	.050	.190	.013	.012	.050	.040	.040	.0030	.002	.001	.0010	45.73	31.87	40.5
17RC021946	9368 KG	268592	.050	.190	.013	.012	.050	.040	.040	.0030	.002	.001	.0010	45.73	31.87	40.5

CF CF 0.075 X 48.000 CS-TYPE-B 001 002 ASTM-A1008 1171042330/20 CRC/ALTAMIRA/PL/LOT4 Date 00:00:00

17RB073031	8905 KG	781552	.042	.202	.018	.011	.010	.010	.010	.0000	.000	.000	.0000	46.84	34.06	34.8
17RC023888	9016 KG	781545	.048	.184	.018	.017	.010	.010	.010	.0000	.000	.000	.0000	46.39	33.5	34.1
17RC025239	8474 KG	721158	.040	.208	.016	.017	.010	.010	.010	.0000	.000	.000	.0000	45.31	32.74	36.5
17RC025248	8876 KG	721158	.040	.208	.016	.017	.010	.010	.010	.0000	.000	.000	.0000	45.31	32.74	36.5
17RC025249	8976 KG	781621	.044	.198	.014	.010	.010	.010	.010	.0000	.000	.000	.0000	46.55	33.69	35.1
17RC025250	8454 KG	781621	.044	.198	.014	.010	.010	.010	.010	.0000	.000	.000	.0000	45.31	32.74	36.5
17RC025253	8896 KG	721158	.040	.208	.016	.017	.010	.010	.010	.0000	.000	.000	.0000	46.55	33.69	35.1
17RC025256	9016 KG	781621	.044	.198	.014	.010	.010	.010	.010	.0000	.000	.000	.0000	46.55	33.69	35.1
17RC025528	8846 KG	781544	.047	.204	.015	.015	.010	.010	.010	.0000	.000	.000	.0000	46.78	35.89	32.0
17RC025536	9056 KG	721156	.043	.223	.014	.014	.010	.010	.010	.0000	.000	.000	.0000	45.73	32.89	37.9
17RC025864	9087 KG	721156	.043	.223	.014	.014	.010	.010	.010	.0000	.000	.000	.0000	45.73	32.89	37.9
17RC025977	8996 KG	781544	.047	.204	.015	.015	.010	.010	.010	.0000	.000	.000	.0000	46.78	35.89	32.0
17RC025997	9006 KG	781544	.047	.204	.015	.015	.010	.010	.010	.0000	.000	.000	.0000	46.78	35.89	32.0
17RC026125	8595 KG	721156	.043	.223	.014	.014	.010	.010	.010	.0000	.000	.000	.0000	45.73	32.89	37.9
17RC027130	9117 KG	781552	.042	.202	.018	.011	.010	.010	.010	.0000	.000	.000	.0000	46.84	34.06	34.8
17RC027777	9127 KG	781552	.042	.202	.018	.011	.010	.010	.010	.0000	.000	.000	.0000	46.84	34.06	34.8

Remarks:

Tensile test in longitudinal direction
 Document validated acc. EN10204 par. 5



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Identification Nr	Quantity	Heat	C (%)	Mn (%)	P (%)	S (%)	Cu (%)	Ni (%)	Cr (%)	Mo (%)	V (%)	Nb (%)	Ti (%)	Rm [ksi]	Re [ksi]	A (%)
17RB065705	6215 KG	572237	.046	.190	.005	.004	.010	.010	.010	.0000	.000	.000	.0000	44.89	32.96	36.1
17RC021440	9358 KG	368140	.050	.210	.018	.009	.070	.030	.030	.0030	.003	.002	.0020	48.94	35.24	34.7
17RC021464	6627 KG	572237	.046	.190	.005	.004	.010	.010	.010	.0000	.000	.000	.0000	44.89	32.96	36.1
17RC021466	6677 KG	572237	.046	.190	.005	.004	.010	.010	.010	.0000	.000	.000	.0000	43.31	29.43	36.9
17RC021546	9388 KG	368140	.050	.210	.018	.009	.070	.030	.030	.0030	.003	.002	.0020	49.04	35.02	35.1
17RC021553	9649 KG	368140	.050	.210	.018	.009	.070	.030	.030	.0030	.003	.002	.0020	49.04	35.02	35.1
17RC021555	6717 KG	572237	.046	.190	.005	.004	.010	.010	.010	.0000	.000	.000	.0000	43.64	30.2	37.9
17RC021577	6587 KG	572391	.039	.170	.006	.004	.010	.010	.010	.0000	.000	.000	.0000	43.85	30.07	37.9
17RC021599	9568 KG	368140	.050	.210	.018	.009	.070	.030	.030	.0030	.003	.002	.0020	48.94	35.24	34.7
17RC021600	9056 KG	268592	.050	.190	.013	.012	.050	.040	.040	.0030	.002	.001	.0010	46.73	30.89	33.0
17RC021607	6265 KG	582256	.037	.176	.010	.004	.010	.010	.010	.0000	.000	.000	.0000	44.19	30.93	38.9
17RC021608	6406 KG	572237	.046	.190	.005	.004	.010	.010	.010	.0000	.000	.000	.0000	43.64	30.2	37.9
17RC021631	6587 KG	582256	.037	.176	.010	.004	.010	.010	.010	.0000	.000	.000	.0000	44.19	30.93	38.9
17RC021707	6295 KG	572391	.039	.170	.006	.004	.010	.010	.010	.0000	.000	.000	.0000	43.85	30.07	37.9
17RC021768	6316 KG	572237	.046	.190	.005	.004	.010	.010	.010	.0000	.000	.000	.0000	43.31	29.43	36.9
17RC021923	9538 KG	268592	.050	.190	.013	.012	.050	.040	.040	.0030	.002	.001	.0010	46.73	30.89	33.0
17RC021965	6657 KG	582104	.047	.196	.009	.006	.010	.010	.010	.0000	.000	.000	.0000	43.6	31	37.8
17RC021997	6215 KG	582104	.047	.196	.009	.006	.010	.010	.010	.0000	.000	.000	.0000	43.6	31	37.8
17RC021998	9548 KG	368140	.050	.210	.018	.009	.070	.030	.030	.0030	.003	.002	.0020	49.75	36.33	33.3
17RC022024	9207 KG	368140	.050	.210	.018	.009	.070	.030	.030	.0030	.003	.002	.0020	49.75	36.33	33.3

CF CF 0.060 X 36.000 CS-TYPE-B 001 002 ASTM-A1008 1171042330/30 CRC/ALTAMIRA/PL/LOT4 Date 00:00:00

Remarks:
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Plant Of Ravenna

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3/11

Identification Nr	Quantity	Heat	C (%)	Mn (%)	P (%)	S (%)	Cu (%)	Ni (%)	Cr (%)	Mo (%)	V (%)	Nb (%)	Ti (%)	Rm [kN]	Re [kN]	A (%)	
CF CF 0.060 X 48.000 CS-TYPE-B 001 002 ASTM-A1008 1171042330/40 CRC/ALTAMIRA/PL/LOT4 Date 00:00:00																	
17RC026063	8976 KG	781621	.044	.198	.014	.010	.010	.010	.010	.0000	.000	.0000	.0000	45.05	33.34	34.5	
17RC026068	9127 KG	721295	.045	.219	.016	.009	.010	.010	.010	.0000	.000	.0000	.0000	43.5	31.19	38.4	
17RC026093	9217 KG	721269	.050	.226	.018	.015	.010	.010	.010	.0000	.000	.0000	.0000	44.44	32.53	35.2	
17RC026104	9197 KG	721286	.042	.209	.009	.006	.010	.010	.010	.0000	.000	.0000	.0000	44.44	35.01	35.4	
17RC026114	9137 KG	721295	.045	.219	.016	.009	.010	.010	.010	.0000	.000	.0000	.0000	43.5	31.19	38.4	
17RC026127	9117 KG	721295	.045	.219	.016	.009	.010	.010	.010	.0000	.000	.0000	.0000	43.76	32.83	36.1	
17RC026204	9187 KG	721286	.042	.209	.009	.006	.010	.010	.010	.0000	.000	.0000	.0000	44.44	35.01	35.4	
17RC026216	8826 KG	721295	.045	.219	.016	.009	.010	.010	.010	.0000	.000	.0000	.0000	43.76	32.83	36.1	
17RC026228	8876 KG	721295	.045	.219	.016	.009	.010	.010	.010	.0000	.000	.0000	.0000	43.5	31.19	38.4	
17RC026293	8795 KG	721286	.042	.209	.009	.006	.010	.010	.010	.0000	.000	.0000	.0000	42.38	31.52	37.9	
17RC026338	9177 KG	721269	.050	.226	.018	.015	.010	.010	.010	.0000	.000	.0000	.0000	44.44	32.53	35.2	
17RC026385	8765 KG	721266	.035	.230	.015	.016	.010	.010	.010	.0000	.000	.0000	.0000	46.24	34.66	32.4	
17RC026412	9117 KG	721295	.045	.219	.016	.009	.010	.010	.010	.0000	.000	.0000	.0000	43.76	32.83	36.1	
17RC026413	8826 KG	721269	.050	.226	.018	.015	.010	.010	.010	.0000	.000	.0000	.0000	44.44	32.53	35.2	
17RC026469	9207 KG	732397	.044	.185	.012	.010	.010	.010	.010	.0000	.000	.0000	.0000	46.56	36.23	34.3	
17RC026480	9056 KG	732397	.044	.185	.012	.010	.010	.010	.010	.0000	.000	.0000	.0000	43.61	30.89	37.6	
17RC026489	8926 KG	721269	.050	.226	.018	.015	.010	.010	.010	.0000	.000	.0000	.0000	44.44	32.53	35.2	
17RC026490	9046 KG	721266	.035	.230	.015	.016	.010	.010	.010	.0000	.000	.0000	.0000	46.24	34.66	32.4	
17RC026580	9046 KG	732397	.044	.185	.012	.010	.010	.010	.010	.0000	.000	.0000	.0000	43.61	30.89	37.6	
17RC026607	8846 KG	732397	.044	.185	.012	.010	.010	.010	.010	.0000	.000	.0000	.0000	43.61	30.89	37.6	
17RC026634	9157 KG	781621	.044	.198	.014	.010	.010	.010	.010	.0000	.000	.0000	.0000	45.05	33.34	34.5	
17RC026666	9227 KG	721269	.050	.226	.018	.015	.010	.010	.010	.0000	.000	.0000	.0000	44.44	32.53	35.2	
17RC026667	9026 KG	721266	.035	.230	.015	.016	.010	.010	.010	.0000	.000	.0000	.0000	46.24	34.66	32.4	
17RC026751	9087 KG	721286	.042	.209	.009	.006	.010	.010	.010	.0000	.000	.0000	.0000	42.38	31.52	37.9	

Remarks:
Tensile test in longitudinal direction
Document validated acc. EN10204 par. 5



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4/11

Identification Nr	Quantity	Heat	C (%)	Mn (%)	P (%)	S (%)	Cu (%)	Ni (%)	Cr (%)	Mo (%)	V (%)	Nb (%)	Ti (%)	Rm [ksi]	Re [ksi]	A (%)
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CF CF 0.060 X 48.000 CS-TYPE-B 001 002 ASTM-A1008 1171042330/40 CRC/ALTAMIRA/PL/LOT4 Date 00:00:00

17RC026752	9097 KG	721286	.042	.209	.009	.006	.010	.010	.010	.0000	.000	.000	.0000	42.38	31.52	37.9
17RC027003	9197 KG	732397	.044	.185	.012	.010	.010	.010	.010	.0000	.000	.000	.0000	46.56	36.23	34.3
17RC027015	8946 KG	732397	.044	.185	.012	.010	.010	.010	.010	.0000	.000	.000	.0000	46.56	36.23	34.3
17RC027016	8996 KG	770422	.047	.230	.018	.009	.010	.010	.010	.0000	.000	.000	.0000	45.85	35.27	32.9
17RC027025	9277 KG	770422	.047	.230	.018	.009	.010	.010	.010	.0000	.000	.000	.0000	45.85	35.27	32.9
17RC027055	9147 KG	781621	.044	.198	.014	.010	.010	.010	.010	.0000	.000	.000	.0000	45.05	33.34	34.5
17RC027724	8926 KG	721286	.042	.209	.009	.006	.010	.010	.010	.0000	.000	.000	.0000	44.44	35.01	35.4
17RC027725	9227 KG	770422	.047	.230	.018	.009	.010	.010	.010	.0000	.000	.000	.0000	45.85	35.27	32.9
17RC027732	9167 KG	721269	.050	.226	.018	.015	.010	.010	.010	.0000	.000	.000	.0000	44.44	32.53	35.2

CF CF 0.048 X 36.000 CS-TYPE-B 001 002 ASTM-A1008 1171042330/50 CRC/ALTAMIRA/PL/LOT4 Date 00:00:00

17RB065628	8163 KG	A350622	.034	.216	.007	.008	.020	.011	.012	.0029	.001	.000	.0008	45.22	30.45	37.1
17RC020339	8243 KG	B350628	.057	.278	.012	.007	.020	.010	.021	.0028	.001	.001	.0012	47.17	33.67	38.5
17RC020341	7862 KG	B350621	.032	.213	.011	.010	.020	.012	.011	.0053	.001	.001	.0017	47	31.9	35.9
17RC020361	8073 KG	A350619	.055	.281	.015	.011	.017	.017	.021	.0043	.001	.000	.0008	48.43	29.78	35.4
17RC020403	6958 KG	B350638	.031	.205	.013	.007	.015	.012	.011	.0046	.000	.001	.0012	43.9	29.3	36.8
17RC020404	7601 KG	B350628	.057	.278	.012	.007	.020	.010	.021	.0028	.001	.001	.0012	47.17	33.67	38.5
17RC020422	8263 KG	B350632	.056	.272	.010	.010	.012	.015	.020	.0014	.000	.001	.0012	48.93	29.71	35.3
17RC020428	8203 KG	B350621	.032	.213	.011	.010	.020	.012	.011	.0053	.001	.001	.0017	47	31.9	35.9
17RC020437	8233 KG	B350624	.047	.252	.013	.014	.022	.013	.017	.0048	.001	.001	.0014	47.14	32.31	37.6
17RC020441	6637 KG	B350638	.031	.205	.013	.007	.015	.012	.011	.0046	.000	.001	.0012	43.9	29.3	36.8
17RC020443	8283 KG	A350619	.055	.281	.015	.011	.017	.017	.021	.0043	.001	.000	.0008	48.43	29.78	35.4
17RC020499	8334 KG	B350621	.032	.213	.011	.010	.020	.012	.011	.0053	.001	.001	.0017	47.37	31.99	36.3
17RC020643	6597 KG	B350638	.031	.205	.013	.007	.015	.012	.011	.0046	.000	.001	.0012	44.21	29.72	38.0

Remarks:

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CF CF 0.048 X 36.000 CS-TYPE-B 001 002 ASTM-A1008 1171042330/50 CRC/ALTAMIRA/PL/LOT4 Date 00:00:00

17RC020651	7731 KG	B350621	.032	.213	.011	.010	.020	.012	.011	.0053	.001	.001	.0017	47.37	31.99	36.3
17RC020663	7942 KG	B350632	.056	.272	.010	.010	.012	.015	.020	.0014	.000	.001	.0012	48.93	29.71	35.3
17RC020672	7952 KG	B350624	.047	.252	.013	.014	.022	.013	.017	.0048	.001	.001	.0014	47.14	32.31	37.6
17RC020681	8283 KG	A350619	.055	.281	.015	.011	.017	.017	.021	.0043	.001	.000	.0008	48.43	29.78	35.4
17RC021159	8093 KG	A350619	.055	.281	.015	.011	.017	.017	.021	.0043	.001	.000	.0008	48.43	29.78	35.4
17RC021439	8253 KG	A350622	.034	.216	.007	.008	.020	.011	.012	.0029	.001	.000	.0008	45.22	30.45	37.1
17RC021706	6888 KG	B350638	.031	.205	.013	.007	.015	.012	.011	.0046	.000	.001	.0012	44.21	29.72	38.0

CF CF 0.048 X 48.000 CS-TYPE-B 001 002 ASTM-A1008 1171042330/60 CRC/ALTAMIRA/PL/LOT4 Date 00:00:00

17RB080707	9197 KG	721286	.042	.209	.009	.006	.010	.010	.010	.0000	.000	.000	.0000	43.6	29.96	38.9
17RB080740	9106 KG	721266	.035	.230	.015	.016	.010	.010	.010	.0000	.000	.000	.0000	47.95	33.02	39.0
17RB080742	9056 KG	721266	.035	.230	.015	.016	.010	.010	.010	.0000	.000	.000	.0000	47.95	33.02	39.0
17RB080743	8865 KG	721266	.035	.230	.015	.016	.010	.010	.010	.0000	.000	.000	.0000	47.95	33.02	39.0
17RB080747	9106 KG	732397	.044	.185	.012	.010	.010	.010	.010	.0000	.000	.000	.0000	46.44	33.58	36.8
17RB080748	9116 KG	732397	.044	.185	.012	.010	.010	.010	.010	.0000	.000	.000	.0000	46.44	33.58	36.8
17RC020257	7480 KG	750998	.069	.318	.015	.015	.023	.014	.026	.0017	.001	.001	.0014	49.56	32.54	34.2
17RC020587	8123 KG	750998	.069	.318	.015	.015	.023	.014	.026	.0017	.001	.001	.0014	49.56	32.54	34.2
17RC020588	8133 KG	750998	.069	.318	.015	.015	.023	.014	.026	.0017	.001	.001	.0014	49.56	32.54	34.2
17RC026390	9137 KG	732397	.044	.185	.012	.010	.010	.010	.010	.0000	.000	.000	.0000	45.41	30.74	37.9
17RC026403	8916 KG	721286	.042	.209	.009	.006	.010	.010	.010	.0000	.000	.000	.0000	46.34	32.25	36.4
17RC026404	9167 KG	770421	.050	.211	.017	.012	.010	.010	.010	.0000	.000	.000	.0000	45.59	31.94	36.4
17RC026440	8966 KG	732397	.044	.185	.012	.010	.010	.010	.010	.0000	.000	.000	.0000	44.54	32.13	35.8
17RC026451	9167 KG	770421	.050	.211	.017	.012	.010	.010	.010	.0000	.000	.000	.0000	45.59	31.94	36.4
17RC026453	8775 KG	732397	.044	.185	.012	.010	.010	.010	.010	.0000	.000	.000	.0000	46.44	33.58	36.8

Remarks:
 Tensile test in longitudinal direction
 Document validated acc. EN10204 par. 5



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Type
 Number
 Issued On

Inspection Certificate 3.1 EN 10204
 10417490144
 11/08/2017

Customer
 DUFERCO SA
 VIA BAGUTTI 9
 6900 LUGANO CH

Consignee
 PORT OF ALTAMIRA
 28003 ALTAMIRA MX

Delivery Nn
 Of
 Delivery note nr

8504703551
 11/08/2017
 1004035140

Quality Control
 Q.M.D. M Manaresi
 Plant Of Ravenna

Pages
 6/11

Identification Nr	Quantity	Heat	C (%)	Mn (%)	P (%)	S (%)	Cu (%)	Ni (%)	Cr (%)	Mo (%)	V (%)	Nb (%)	Ti (%)	Rm [kN]	Re [kN]	A (%)
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CF CF 0.048 X 48.000 CS-TYPE-B 001 002 ASTM-A1008 1171042330/60 CRC/ALTAMIRA/PL/LOT4 Date 00:00:00

17RC026461	9177 KG	732397	.044	.185	.012	.010	.010	.010	.010	.0000	.000	.000	.0000	44.54	32.13	35.8
17RC026648	9177 KG	732397	.044	.185	.012	.010	.010	.010	.010	.0000	.000	.000	.0000	44.54	32.13	35.8
17RC026671	8755 KG	770421	.050	.211	.017	.012	.010	.010	.010	.0000	.000	.000	.0000	45.59	31.94	36.4
17RC026755	8846 KG	721286	.042	.209	.009	.006	.010	.010	.010	.0000	.000	.000	.0000	43.6	29.96	38.9
17RC026756	9107 KG	721286	.042	.209	.009	.006	.010	.010	.010	.0000	.000	.000	.0000	46.34	32.25	36.4
17RC026759	9137 KG	732397	.044	.185	.012	.010	.010	.010	.010	.0000	.000	.000	.0000	45.41	30.74	37.9
17RC026760	8785 KG	732397	.044	.185	.012	.010	.010	.010	.010	.0000	.000	.000	.0000	45.41	30.74	37.9
17RC026981	8283 KG	732397	.044	.185	.012	.010	.010	.010	.010	.0000	.000	.000	.0000	44.76	32.5	34.1
17RC026982	9167 KG	721286	.042	.209	.009	.006	.010	.010	.010	.0000	.000	.000	.0000	43.6	29.96	38.9
17RC026998	9107 KG	721286	.042	.209	.009	.006	.010	.010	.010	.0000	.000	.000	.0000	46.34	32.25	36.4
17RC027027	9157 KG	732397	.044	.185	.012	.010	.010	.010	.010	.0000	.000	.000	.0000	44.76	32.5	34.1
17RC027195	8554 KG	721286	.042	.209	.009	.006	.010	.010	.010	.0000	.000	.000	.0000	46.34	32.25	36.4
17RC027261	9167 KG	721286	.042	.209	.009	.006	.010	.010	.010	.0000	.000	.000	.0000	46.34	32.25	36.4
17RC027262	9167 KG	721286	.042	.209	.009	.006	.010	.010	.010	.0000	.000	.000	.0000	46.34	32.25	36.4
17RC027275	9137 KG	732397	.044	.185	.012	.010	.010	.010	.010	.0000	.000	.000	.0000	44.76	32.5	34.1
17RC027298	9247 KG	791357	.042	.186	.014	.014	.010	.010	.010	.0000	.000	.000	.0000	45.09	31.7	37.6

CF CF 0.036 X 36.000 CS-TYPE-B 001 002 ASTM-A1008 1171042330/70 CRC/ALTAMIRA/PL/LOT4 Date 00:00:00

17RB062776	8042 KG	B350628	.057	.278	.012	.007	.020	.010	.021	.0028	.001	.001	.0012	47.2	30.9	35.4
17RC020274	8263 KG	B350621	.032	.213	.011	.010	.020	.012	.011	.0053	.001	.001	.0017	46.91	30.29	39.7
17RC020562	7842 KG	B350624	.047	.252	.013	.014	.022	.013	.017	.0048	.001	.001	.0014	47.5	27.04	36.8
17RC020667	8022 KG	B350621	.032	.213	.011	.010	.020	.012	.011	.0053	.001	.001	.0017	46.91	30.29	39.7
17RC021158	8303 KG	B350624	.047	.252	.013	.014	.022	.013	.017	.0048	.001	.001	.0014	47.5	27.04	36.8
17RC021264	8313 KG	B350628	.057	.278	.012	.007	.020	.010	.021	.0028	.001	.001	.0012	47.2	30.9	35.4

Remarks:
 Tensile test in longitudinal direction
 Document validated acc. EN10204 par. 5



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Type
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Consignee
 PORT OF ALTAMIRA
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 Delivery note nr

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 11/08/2017
 1004035140

Quality Control
 Q.M.D. M. Manaresi
 Plant Of Ravenna

Pages
 7/11

Identification Nr	Quantity	Heat	C (%)	Mn (%)	P (%)	S (%)	Cu (%)	Ni (%)	Cr (%)	Mo (%)	V (%)	Nb (%)	Ti (%)	Rm [ksi]	Re [ksi]	A (%)
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CF CF 0.036 X 36.000 CS-TYPE-B 001 002 ASTM-A1008 1171042330/70 CRC/ALTAMIRA/PL/LOT4 Date 00:00:00

17RC021460	8243 KG	B350628	.057	.278	.012	.007	.020	.010	.021	.0028	.001	.001	.0012	47.2	30.9	35.4
17RC021465	8032 KG	B350628	.057	.278	.012	.007	.020	.010	.021	.0028	.001	.001	.0012	47.2	30.9	35.4

CF CF 0.036 X 48.000 CS-TYPE-B 001 002 ASTM-A1008 1171042330/80 CRC/ALTAMIRA/PL/LOT4 Date 00:00:00

17RB078996	9046 KG	732442	.041	.230	.018	.016	.010	.010	.010	.0000	.000	.000	.0000	47.45	26.46	36.7
17RC023901	9488 KG	751003	.058	.285	.017	.014	.018	.016	.021	.0027	.001	.001	.0009	42.66	27.31	38.1
17RC023931	9227 KG	751003	.058	.285	.017	.014	.018	.016	.021	.0027	.001	.001	.0009	42.66	27.31	38.1
17RC023932	8062 KG	750992	.034	.215	.011	.008	.013	.012	.012	.0029	.001	.001	.0011	45.24	28.94	35.1
17RC023972	7832 KG	750992	.034	.215	.011	.008	.013	.012	.012	.0029	.001	.001	.0011	45.24	28.94	35.1
17RC023973	8052 KG	750992	.034	.215	.011	.008	.013	.012	.012	.0029	.001	.001	.0011	45.24	28.94	35.1
17RC026163	8313 KG	721295	.045	.219	.016	.009	.010	.010	.010	.0000	.000	.000	.0000	47.46	26.42	37.2
17RC026171	10141 KG	732461	.045	.225	.016	.010	.021	.015	.017	.0025	.001	.000	.0019	42.41	28.42	36.0
17RC026205	9348 KG	721295	.045	.219	.016	.009	.010	.010	.010	.0000	.000	.000	.0000	47.46	26.42	37.2
17RC026399	9207 KG	732442	.041	.230	.018	.016	.010	.010	.010	.0000	.000	.000	.0000	47.45	26.46	36.7
17RC026460	9348 KG	770422	.047	.230	.018	.018	.009	.010	.010	.0000	.000	.000	.0000	45.49	29.25	36.6
17RC026467	9227 KG	732442	.041	.230	.018	.016	.010	.010	.010	.0000	.000	.000	.0000	47.45	26.46	36.7
17RC026609	9338 KG	770422	.047	.230	.018	.018	.009	.010	.010	.0000	.000	.000	.0000	45.49	29.25	36.6
17RC026693	10241 KG	732461	.045	.225	.016	.010	.021	.015	.017	.0025	.001	.000	.0019	42.41	28.42	36.0
17RC027779	9338 KG	721295	.045	.219	.016	.009	.010	.010	.010	.0000	.000	.000	.0000	47.46	26.42	37.2

CF CF 0.030 X 36.000 CS-TYPE-B 001 002 ASTM-A1008 1171042330/90 CRC/ALTAMIRA/PL/LOT4 Date 00:00:00

17RB062732	6526 KG	A350622	.034	.216	.007	.008	.020	.011	.012	.0029	.001	.000	.0008	42.79	25.69	37.5
17RB062799	6757 KG	B350638	.031	.205	.013	.007	.015	.012	.011	.0046	.000	.001	.0012	46.71	25.57	37.6

Remarks:
 Tensile test in longitudinal direction
 Document validated acc. EN10204 par. 5



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Type
 Number
 Issued On

Inspection Certificate 3.1 EN 10204
 10417490144
 11/08/2017

Customer
 DUFERCO SA
 VIA BAGUTTI 9
 6900 LUGANO CH

Consignee
 PORT OF ALTAMIRA
 28003 ALTAMIRA MX

Delivery Nn
 Cf
 Delivery note nr

8504703551
 11/08/2017
 1004035140

Quality Control
 Q.M.D. M. Manaresi
 Plant Of Ravenna

Pages
 8/11

Identification Nr	Quantity	Heat	C (%)	Mn (%)	P (%)	S (%)	Cu (%)	Ni (%)	Cr (%)	Mo (%)	V (%)	Nb (%)	Ti (%)	Rm [ksi]	Re [ksi]	A (%)
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CF CF 0.030 X 36.000 CS-TYPE-B 001 002 ASTM-A1008 1171042330/90 CRC/ALTAMIRA/PL/LOT4 Date 00:00:00

17RB065637	8303 KG	B350628	.057	.278	.012	.007	.020	.010	.021	.0028	.001	.001	.0012	47.47	30.45	33.4
17RC020416	6988 KG	A350622	.034	.216	.007	.008	.020	.011	.012	.0029	.001	.000	.0008	42.79	25.69	37.5
17RC021135	6878 KG	B350638	.031	.205	.013	.007	.015	.012	.011	.0046	.000	.001	.0012	46.71	25.57	37.6
17RC021543	7992 KG	B350628	.057	.278	.012	.007	.020	.010	.021	.0028	.001	.001	.0012	47.47	30.45	33.4

CF CF 0.030 X 48.000 CS-TYPE-B 001 002 ASTM-A1008 1171042330/100 CRC/ALTAMIRA/PL/LOT4 Date 00:00:00

17RC027120	9217 KG	1711601	.047	.170	.004	.003	.010	.010	.010	.0000	.000	.000	.0000	47.61	27.2	36.7
17RC027136	9659 KG	1711601	.047	.170	.004	.003	.010	.010	.010	.0000	.000	.000	.0000	47.61	27.2	36.7
17RC027137	7611 KG	038699	.035	.199	.010	.006	.016	.044	.033	.0021	.001	.001	.0015	45.18	28.17	38.4
17RC027157	7611 KG	038699	.035	.199	.010	.006	.016	.044	.033	.0021	.001	.001	.0015	45.18	28.17	38.4
17RC027160	8996 KG	039276	.040	.204	.008	.003	.023	.033	.031	.0043	.001	.000	.0008	47.2	26.46	37.2
17RC027168	7460 KG	038699	.035	.199	.010	.006	.016	.044	.033	.0021	.001	.001	.0015	45.18	28.17	38.4
17RC027177	7691 KG	038963	.041	.208	.007	.004	.029	.035	.033	.0049	.001	.000	.0011	46.37	28.26	37.4
17RC027178	7681 KG	038963	.041	.208	.007	.004	.029	.035	.033	.0049	.001	.000	.0011	46.37	28.26	37.4
17RC027184	7520 KG	038963	.041	.208	.007	.004	.029	.035	.033	.0049	.001	.000	.0011	46.37	28.26	37.4
17RC027185	8996 KG	039276	.040	.204	.008	.003	.023	.033	.031	.0043	.001	.000	.0008	47.2	26.46	37.2
17RC027193	8805 KG	039276	.040	.204	.008	.003	.023	.033	.031	.0043	.001	.000	.0008	47.2	26.46	37.2
17RC027242	9438 KG	1711601	.047	.170	.004	.003	.010	.010	.010	.0000	.000	.000	.0000	47.61	27.2	36.7
17RC027243	9147 KG	1711601	.047	.170	.004	.003	.010	.010	.010	.0000	.000	.000	.0000	47.61	27.2	36.7

CF CF 0.024 X 36.000 CS-TYPE-B 001 002 ASTM-A1008 1171042330/110 CRC/ALTAMIRA/PL/LOT4 Date 00:00:00

17RC020442	8113 KG	A350622	.034	.216	.007	.008	.020	.011	.012	.0029	.001	.000	.0008	43.51	26.04	35.6
17RC020578	8263 KG	A350619	.055	.281	.015	.011	.017	.017	.021	.0043	.001	.000	.0008	48.52	29.16	35.5

Remarks:

Tensile test in longitudinal direction
 Document validated acc. EN10204 par. 5



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Consignee
 PORT OF ALTAMIRA
 28003 ALTAMIRA MX

Type
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Inspection Certificate 3.1 EN 10204
 10417490144
 11/08/2017

Delivery Nn
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 Delivery note nr

8504703551
 11/08/2017
 1004035140

Quality Control
 Plant Of

Q.M.D. M.Manaresi
 Plant Of Ravenna

Pages
 9/11

Identification Nr	Quantity	Heat	C (%)	Mn (%)	P (%)	S (%)	Cu (%)	Ni (%)	Cr (%)	Mo (%)	V (%)	Nb (%)	Ti (%)	Rm [ksi]	Re [ksi]	A (%)
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CF CF 0.024 X 36.000 CS-TYPE-B 001 002 ASTM-A1008 1171042330/110 CRC/ALTAMIRA/PL/LOT4 Date 00:00:00

17RC020602	8113 KG	A350619	.055	.281	.015	.011	.017	.017	.021	.0043	.001	.000	.0008	48.52	29.16	35.5
17RC020603	7560 KG	A350622	.034	.216	.007	.008	.020	.011	.012	.0029	.001	.000	.0008	43.51	26.04	35.6
17RC020649	8243 KG	8398006	.050	.265	.011	.009	.019	.014	.018	.0037	.001	.001	.0009	48.32	29.03	35.8
17RC020662	8083 KG	8398006	.050	.265	.011	.009	.019	.014	.018	.0037	.001	.001	.0009	48.32	29.03	35.8

CF CF 0.024 X 48.000 CS-TYPE-B 001 002 ASTM-A1008 1171042330/120 CRC/ALTAMIRA/PL/LOT4 Date 00:00:00

17RC027131	9348 KG	1711606	.046	.160	.005	.003	.010	.010	.010	.0000	.000	.000	.0000	51.57	38.3	34.4
17RC027299	9589 KG	1711606	.046	.160	.005	.003	.010	.010	.010	.0000	.000	.000	.0000	51.57	38.3	34.4
17RC027358	9378 KG	1711602	.039	.180	.006	.003	.010	.010	.010	.0000	.000	.000	.0000	49.45	32.66	37.2
17RC027368	8836 KG	1711602	.039	.180	.006	.003	.010	.010	.010	.0000	.000	.000	.0000	49.45	32.66	37.2
17RC027495	9398 KG	1711606	.046	.160	.005	.003	.010	.010	.010	.0000	.000	.000	.0000	51.57	38.3	34.4
17RC027728	10261 KG	781723	.065	.307	.014	.011	.020	.015	.024	.0013	.001	.001	.0006	46.87	28.72	34.0
17RC027733	9890 KG	781723	.065	.307	.014	.011	.020	.015	.024	.0013	.001	.001	.0006	46.87	28.72	34.0
17RC027738	9889 KG	1711606	.046	.160	.005	.003	.010	.010	.010	.0000	.000	.000	.0000	51.57	38.3	34.4
17RC030389	9478 KG	750991	.055	.273	.013	.008	.017	.015	.020	.0037	.001	.001	.0007	46.26	29.71	35.0

CF CF 0.105 X 36.000 CS-TYPE-B 001 002 ASTM-A1008 1171042330/130 CRC/ALTAMIRA/PL/LOT4 Date 00:00:00

17RB080935	10232 KG	781524	.042	.227	.021	.011	.009	.002	.020	.0015	.007	.000	.0031	46.98	35.43	39.1
17RB080957	10060 KG	721059	.035	.218	.013	.011	.010	.010	.010	.0000	.000	.000	.0000	45.24	38.85	36.7
17RC026565	10140 KG	791355	.038	.230	.015	.013	.010	.010	.010	.0000	.000	.000	.0000	46.97	35.95	35.5
17RC026615	9940 KG	781524	.042	.227	.021	.011	.009	.002	.020	.0015	.007	.000	.0031	46.98	35.43	39.1
17RC026659	10100 KG	791355	.038	.230	.015	.013	.010	.010	.010	.0000	.000	.000	.0000	46.97	35.95	35.5
17RC026940	9720 KG	721059	.035	.218	.013	.011	.010	.010	.010	.0000	.000	.000	.0000	45.24	38.85	36.7

Remarks:

Tensile test in longitudinal direction
 Document validated acc. EN10204 par. 5



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Type
Number
Issued On

Inspection Certificate 3.1 EN 10204
10417490144
11/08/2017

Customer
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VIA BAGUTTI 9
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PORT OF ALTAMIRA
28003 ALTAMIRA MX

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Quality Control
Q.M.D. M.Manaresi
Plant Of Ravenna

Pages
10/11

Identification Nr	Quantity	Heat	C (%)	Mn (%)	P (%)	S (%)	Cu (%)	Ni (%)	Cr (%)	Mo (%)	V (%)	Nb (%)	Ti (%)	Rm [ksi]	Re [ksi]	A (%)
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CF CF 0.105 X 48.000 CS-TYPE-B 001 002 ASTM-A1008 1171042330/140 CRC/ALTAMIRA/PL/LOT4 Date 00:00:00

17RC025478	12329 KG	781545	.048	.184	.018	.017	.010	.010	.010	.0000	.000	.000	.0000	45.67	33.86	36.1
17RC025521	9217 KG	781552	.042	.202	.018	.011	.010	.010	.010	.0000	.000	.000	.0000	45.02	33.09	37.9
17RC025718	8966 KG	781552	.042	.202	.018	.011	.010	.010	.010	.0000	.000	.000	.0000	46.84	34.14	33.6
17RC025763	9117 KG	781545	.048	.184	.018	.017	.010	.010	.010	.0000	.000	.000	.0000	45.67	33.86	36.1
17RC025795	8484 KG	781551	.046	.193	.013	.011	.010	.010	.010	.0000	.000	.000	.0000	48.23	36.59	34.7
17RC025810	9177 KG	781552	.042	.202	.018	.011	.010	.010	.010	.0000	.000	.000	.0000	45.02	33.09	37.9
17RC025865	9127 KG	791422	.039	.191	.013	.009	.010	.010	.010	.0000	.000	.000	.0000	46.56	34.57	36.8
17RC026058	9036 KG	781551	.046	.193	.013	.011	.010	.010	.010	.0000	.000	.000	.0000	48.23	36.59	34.7
17RC026086	9137 KG	791422	.039	.191	.013	.009	.010	.010	.010	.0000	.000	.000	.0000	46.56	34.57	36.8
17RC026100	8775 KG	791422	.039	.191	.013	.009	.010	.010	.010	.0000	.000	.000	.0000	46.56	34.57	36.8
17RC026112	7751 KG	781552	.042	.202	.018	.011	.010	.010	.010	.0000	.000	.000	.0000	46.84	34.14	33.6
17RC026198	9046 KG	781551	.046	.193	.013	.011	.010	.010	.010	.0000	.000	.000	.0000	48.23	36.59	34.7
17RC026199	8103 KG	781552	.042	.202	.018	.011	.010	.010	.010	.0000	.000	.000	.0000	45.02	33.09	37.9
17RC026221	8926 KG	781552	.042	.202	.018	.011	.010	.010	.010	.0000	.000	.000	.0000	46.84	34.14	33.6

CF CF 0.018 X 36.000 CS-TYPE-B 001 002 ASTM-A1008 1171042330/150 CRC/ALTAMIRA/PL/LOT4 Date 00:00:00

17RC025017	9880 KG	732255	.042	.205	.016	.011	.010	.010	.010	.0000	.000	.000	.0000	48.42	30.38	39.6
17RC025196	9097 KG	732255	.042	.205	.016	.011	.010	.010	.010	.0000	.000	.000	.0000	45.82	28.17	35.4
17RC025240	9840 KG	732255	.042	.205	.016	.011	.010	.010	.010	.0000	.000	.000	.0000	48.42	30.38	39.6
17RC025244	9900 KG	721136	.037	.214	.013	.009	.010	.010	.010	.0000	.000	.000	.0000	47.9	30.17	33.0
17RC025245	9880 KG	732255	.042	.205	.016	.011	.010	.010	.010	.0000	.000	.000	.0000	48.42	30.38	39.6
17RC025246	9679 KG	732255	.042	.205	.016	.011	.010	.010	.010	.0000	.000	.000	.0000	48.42	30.38	39.6
17RC025318	9056 KG	732255	.042	.205	.016	.011	.010	.010	.010	.0000	.000	.000	.0000	45.82	28.17	35.4

Remarks:
*Tensile test in longitudinal direction
Document validated acc. EN10204 par. 5



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Consignee
 PORT OF ALTAMIRA
 28003 ALTAMIRA MX

Type
 Number
 Issued On

Inspection Certificate 3.1 EN 10204
 10417490144
 11/08/2017

Delivery Nn
 Cf
 Delivery note nr

8504703551
 11/08/2017
 1004035140

Quality Control
 Q.M.D. M. Manaresi
 Plant Of Ravenna

Pages
 11/11

Identification Nr	Quantity	Heat	C (%)	Mn (%)	P (%)	S (%)	Cu (%)	Ni (%)	Cr (%)	Mo (%)	V (%)	Nb (%)	Ti (%)	Rm [ksi]	Re [ksi]	A (%)
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CF CF 0.018 X 36.000 CS-TYPE-B 001 002 ASTM-A1008 1171042330/150 CRC/ALTAMIRA/PL/LOT4 Date 00:00:00

17RC025853	9860 KG	721136	.037	.214	.013	.009	.010	.010	.010	.0000	.000	.000	.0000	47.9	30.17	33.0
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CF CF 0.018 X 48.000 CS-TYPE-B 001 002 ASTM-A1008 1171042330/160 CRC/ALTAMIRA/PL/LOT4 Date 00:00:00

17RC030110	10914 KG	272908	.050	.190	.018	.020	.050	.040	.050	.0030	.003	.002	.0020	51.6	34.11	31.0
17RC030486	11245 KG	272887	.060	.170	.011	.012	.040	.020	.030	.0030	.002	.002	.0020	48.66	31.7	31.5
17RC030487	10934 KG	173042	.060	.170	.014	.008	.020	.020	.030	.0040	.003	.002	.0020	51.6	32.64	30.7

Remarks:

Tensile test in longitudinal direction
 Document validated acc. EN10204 par. 5