

CERTIFICADO DE CONFORMIDADE DA SUPERVISÃO DO FABRICO /
 CERTIFICATE OF CONFORMITY FOR SUPERVISION OF MANUFACTURE

 Documento Nº / Document N^o: 1221_22
**Organismo In-house Inspection service (IS) da Amtrol-Alfa /
 In-house Inspection service (IS) Body of Amtrol-Alfa**

Fabricante / Manufacturer	Amtrol – Alfa Metalomecânica, S.A.		
Morada / Address	Apartado 37 - Lugar de Pontilhões - Brito - 4801-909 Guimarães		
Cliente / Client	LPG EQUIPMENT B.V.		
Morada / Address	DE COMPAGNIE 40 ZWAAG, 1689 AG, NL		
N^o Série / Serial N^o	RR07473 - RR09017	Lote N^o / Batch N^o	0692_22
Desenho Geral N^o / General Drawing N^o	G026-02-0055 rev.b	Desenho de Fabrico N^o / Manufacturing Drawing N^o	G026-03-1065 REV.F
Data de Fabrico / Date of Manufacture	05/202	Capacidade / Water Capacity	26.50 Litros / Litres
Pressão de Teste / Test Pressure	30 bar	Pressão Conceção / Design Pressure	30 bar
Temperatura Tratamento Térmico / Heat Treatment Temperature	~905 ° C	OE / OC	21976/1/2-22107/1
Vida Conceção / Design Life	Unlimited/Ilimitada		
Conteúdo / Contents	GPL/LPG		
Norma Construção / Construction Standard	EN1442:2006 + A1:2008 + Dir. 2010/35/UE (TPED) + ADR/RID 2021		

Todas as garrafas fornecidas foram inspecionadas visualmente, realizaram o ensaio de fugacidade e ensaio de pressão à pressão de teste referida acima. / All cylinders supplied have been visual inspected, performed the leak test and pressure test at the pressure test referred above.

Concepção/Design:

 Organismo Notificado para Aprovação de Concepção ou Aprovação Modelo / *Notified Body for Design Approval or Type Approval*

Nome / Name	SGS United Kingdom Limited - Industrial Services		
Morada / Address	Station Road, Oldbury, West Midlands, B69 4LN, United Kingdom		
N^o Identificação ON / NB Identification N^o	--	Número certificado / Certificate Number	149732/TA/01

Organismo de Inspeção ao fabrico / Inspection Body to supervision of manufacture	In-house Inspection Body of Amtrol-Alfa
N^o Identificação Organismo notificado / NB Identification N^o	0035

CERTIFICADO DE CONFORMIDADE DA SUPERVISÃO DO FABRICO /

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Lista de verificação / <i>Check list</i>		Resultado / <i>Result</i>	
1	Inspeção de matérias-primas (incluindo verificação do certificado de matérias-primas) <i>Raw material inspection (including check of the raw material certificate)</i>	<input checked="" type="checkbox"/>	Passou / <i>Pass</i> <input type="checkbox"/> Falhou / <i>Fail</i>
2	Verificação do certificado de aprovação de modelo <i>Verification of type approval certificate</i>	<input checked="" type="checkbox"/>	Passou / <i>Pass</i> <input type="checkbox"/> Falhou / <i>Fail</i>
3	Verificação da documentação exigida para a aprovação de modelo <i>Verification of documentation required for type Approval</i>	<input checked="" type="checkbox"/>	Passou / <i>Pass</i> <input type="checkbox"/> Falhou / <i>Fail</i>
4	Documentação sobre a qualificação e aprovação do pessoal <i>Documentation on the qualification and approval of personnel</i>	<input checked="" type="checkbox"/>	Passou / <i>Pass</i> <input type="checkbox"/> Falhou / <i>Fail</i>
5	Relatórios dos ensaios destrutivos e não destrutivos <i>Destructive and non-destructive examination reports</i>	<input checked="" type="checkbox"/>	Passou / <i>Pass</i> <input type="checkbox"/> Falhou / <i>Fail</i>
6	Registo de tratamento térmico (quando aplicável) <i>Heat treatment record (when applicable)</i>	<input checked="" type="checkbox"/>	Passou / <i>Pass</i> <input type="checkbox"/> Falhou / <i>Fail</i>
7	Procedimentos de fabricação e de testes <i>Manufacturing and testing procedures</i>	<input checked="" type="checkbox"/>	Passou / <i>Pass</i> <input type="checkbox"/> Falhou / <i>Fail</i>
8	Calibrações <i>Calibrations</i>	<input checked="" type="checkbox"/>	Passou / <i>Pass</i> <input type="checkbox"/> Falhou / <i>Fail</i>
9	Registos do processo de Inspeção <i>Process Inspection Records</i>	<input checked="" type="checkbox"/>	Passou / <i>Pass</i> <input type="checkbox"/> Falhou / <i>Fail</i>
10	Inspeção da embalagem da garrafa acabada <i>Finished cylinder packing inspection</i>	<input checked="" type="checkbox"/>	Passou / <i>Pass</i> <input type="checkbox"/> Falhou / <i>Fail</i>
Resultado Final <i>Final result</i>		<input checked="" type="checkbox"/>	Passou / <i>Pass</i> <input type="checkbox"/> Falhou / <i>Fail</i>

Os materiais utilizados no fabrico foram identificados por número de lote a as suas propriedades verificadas de acordo com a especificação e com os requisitos de aprovação de modelo. Os relatórios dos ensaios do fabrico realizados de acordo com esta norma e os certificados de materiais encontram-se em anexo. / *The materials used in the manufacture were identified by batch number and their properties verified according to the specification and the type approval requirements. The reports of the manufacturing tests performed in accordance with this standard and the material certificates are attached.*

AMTROL-ALFA tem implementado o INHOUSE INSPECTION SERVICE de acordo com o ponto 1.8.7.6 do ADR/RID 2021 para supervisão do fabrico, inspeção inicial e ensaios. O INHOUSE INSPECTION SERVICE está reconhecido pelo organismo notificado TÜV Rheinland com o certificado nº 01 202 322/IS-110036-T.

AMTROL-ALFA has implemented an INHOUSE INSPECTION SERVICE according to 1.8.7.6 ADR/RID 2021 with supervision of manufacture, initial inspections and testes. The INHOUSE INSPECTION SERVICE is recognized by TÜV Rheinland with certificate nº 01 202 322/IS-110036-T.

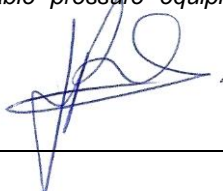
A conceção, fabrico e inspeção de garrafas de gás transportáveis estão conforme os requisitos das normas de construção mencionadas acima.

The design, manufacture and inspection of this transportable pressure equipment conform to the requirements of construction standards mentioned above.

Data
Date

08/06/2022

Responsável IS
IS Responsible



RELATÓRIO IS - INSPECÇÃO INICIAL E ENSAIOS de acordo com a Directiva 2010/35/UE e/ou ADR/RID 2021 (1.8.7.6)
IS REPORT - INITIAL INSPECTION AND TESTS according Directive 2010/35/UE and/or ADR/RID 2021 (1.8.7.6)

Lote nº/ Batch nº	0692-22	Data/ Date	01/06/2022	OE/ OF	21976/1/2-22107/1	Modelo/ Model	G026
Aprovação Modelo/ Type approval certificate	022G026	NºSérie/ Serial nº	RR07473	Até nº/ Until nº	RR09017	Cliente/ Customer	LPG EQUIPMENT
Norma de Construção/ Construction Standard	EN1442:2006 + A1:2008 + Dir. 2010/35/UE (TPED) + ADR/RID 2011	Desenho/ Drawing	G026-02-0055 Rev.b			Pressão de teste/ Pressure test	30 bar

Itens Verificados/ Checked Items	Referência/ Reference	Registo/ Register	Conformidade/ Conformity	
Superfície material base/ Surface of base material	ISO 8501-1-2007	-----	OK	
Certificado material base/ Certificate of base material	EN 10120:2008	-----	OK	
Certificado material adição/ Certificate of addition material	ISO14171:2010-S1	-----	OK	
Calibração Equipamentos/ Equipments Calibration (Próxima Calibração/Next Calibration)	-----	TP.1.021/08-2022	OK	
	-----	M.1.404 /05-2022	OK	
	-----	M.1.461 /07-2022	OK	
	-----	M.1.148 /06-2022	OK	
	-----	M.1.250 /08-2022	-----	
	-----	-----	-----	
Certificados Operadores Soldadura/ Soldadores/ Welding Operators/ Welders Certificate	Circunferencial/ Circunferencial	-----	Cert.429 / Cert. 369	OK
	Longitudinal/ Longitudinal	N/A	-----	-----
	Bolacha/ Bung	-----	Cert.428	OK
	Acessórios/ Accessories	-----	Cert.434 / Cert. 432	OK
Procedimento de soldadura/ Welding procedure	Circunferencial/ Circunferencial	EPS012SC11015R1	-----	OK
	Longitudinal/ Longitudinal	N/A	N/A	N/A
	Bolacha/ Bung	EPS012SB11011R2	-----	OK
	Acessórios/ Accessories	EPS135SG11014R1 EPS135SG11016R1	-----	OK
Espessura Mínima Coquilha/ Dome minimum thickness(mm)	1,93 Min.	1,94	OK	
Espessura Mínima Virola/ Shell minimum thickness(mm)	N/A	N/A	N/A	
Altura Mínima do rebaixo/ Height minimum of recess(mm)	6 m/m Min.	10	OK	
Inspeção visual da soldadura/ Visual inspection of welding	ISO 17637	-----	OK	
Diâmetro da garrafa/ Cylinder diameter(mm)	300±1	299,50	OK	
Altura do corpo/ Body height(mm)	452+5-1	453,50	OK	
Capacidade da garrafa/ Cylinder Capacity (l)	26,50 L Min.	27,13	OK	
Tratamento térmico/ Heat treatment(°C/min.)	890° a 920°	-----	OK	
Ensaio Hidráulico/ Hydraulic Test(bar/seg)	30/30	30/30	OK	
Rosca da bolacha/ Thread of the bung	3/4"-14NGT	3/4"-14NGT	-----	
Aspecto interno e externo/ Internal and external aspect	ADR/Standard Const.	-----	OK	
Marcas/ Marks	ADR/Proj.	-----	OK	
Ensaio/ Tests	Macrográficos/ Macrográfico	N/A	N/A	N/A
	Mecânicos/ Mechanical(N/mm ²)	Construction Standard	Test Report	OK
	Hidráulicos/ Hydraulic(bar/l)	Construction Standard	Test Report	OK
	Radiográficos/ Radiográfico	Construction Standard	Test Report	OK
	Fadiga (nº ciclos/bar)/ Fatigue (Number of cycles/bar)	N/A	N/A	N/A

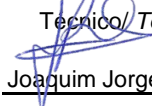
Observações
 Observations

O inspector IS supervisiona a produção e verifica todos os requisitos, rastreabilidade, qualificação do pessoal e ensaios de produção de acordo com o ADR/RID 2021 e ISO 9001:2015.

____ OK ____ (OK/NOK)

The inspector IS oversees the manufacture and check all the requirements, traceability, personnel qualification and tests of manufacture according to the ADR/RID 2021 and ISO 9001:2015.

Os técnicos de ensaios não destrutivos verificados para este fabrico apresentam as qualificações necessárias. / The non-destructive testing technicians verified for this manufacture have the necessary qualifications.

Técnico/ Technician,

 Joaquim Jorge Oliveira

Data/ Date

____ 01/06/2022 ____

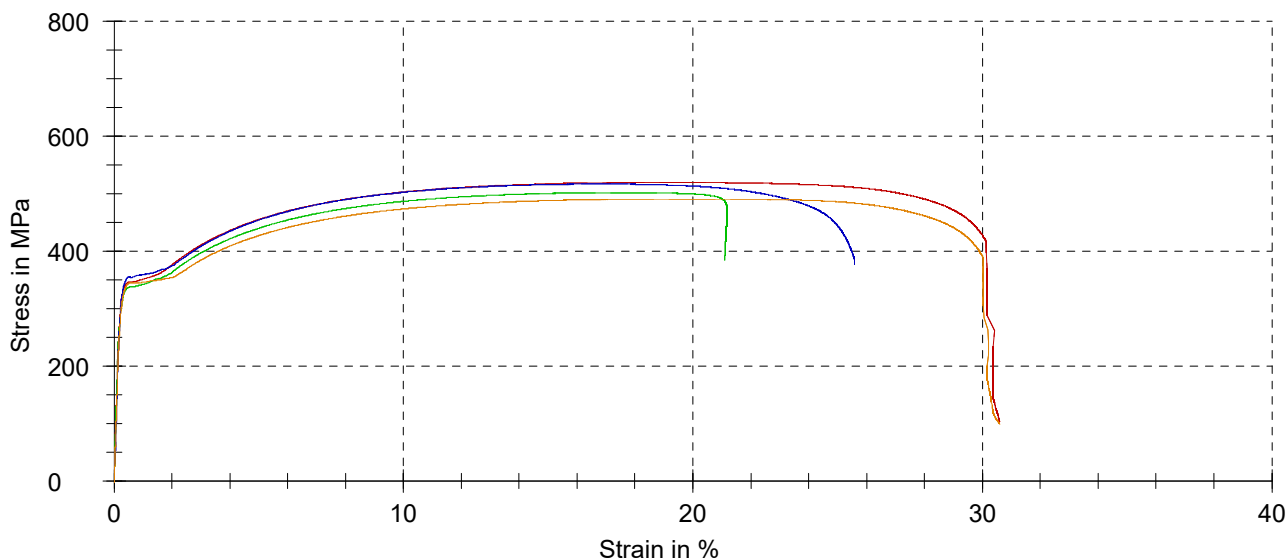
Ensaio Mecânico/Mechanical Test

Cliente/Customer : LPG EQUIP.
 Lote/Batch : 0692/22
 Modelo/Type : 022G026
 1º e Último N.º Série/Range Serial N.º : RR07473 - RR09017
 Norma Construção/Construction Standard : EN1442:2006 (ISO6892-1)
 Material/Material : P310NB
 Encomenda/Order N.º : 21976/1_21976/2_22107/1
 Operador/Operator : J.MARQUES
 Entidade Inspetora / Notified Body : IN-HOUSE INSPECTION SERVICE
 OBS : Devido à rotura do(s) provete(s) se ter verificado fora do campo de acção do extensómetro, considerar o valor do alongamento da coluna Along/grip do(s) seguinte(s) provete(s) :
 The elongation of the specimen, from the cylinder(s) described below, must be read on the column Along/grip, because the break happened outside the action of the extensometer: RR08046 (A).
 Date/Data : 18/05/2022

Resultados/Results:

Legend	Specimen no.	Garr/Cyl N.º	Prov/Specm type	S ₀ mm ²	L ₀ mm	E GPa	R _{p0.2} MPa	R _m MPa	A _{80mm} %	Along/Elong grip %
max							---	550	---	---
min							310	460	21,0	21,0
	1	RR07625	A	40,44	80,07	192	340	519	30,5	33,9
	2	RR08046	A	43,00	80,12	199	329	501	<20,9	32,0
	3	RR08693	A	40,62	80,07	148	353	516	25,3	31,2
	4	RR09003	A	41,80	80,12	154	339	491	30,5	34,6

Series graph:



Referência do equipamento de ensaios mecânicos / Mechanical equipment Reference: MQ.1.010

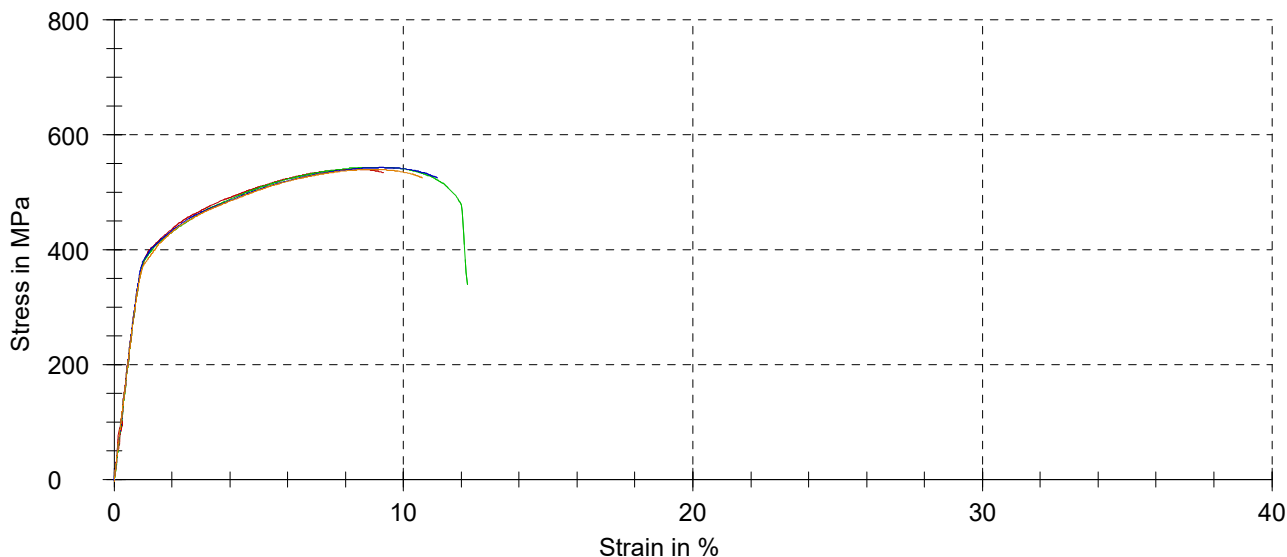
Ensaio Mecânico/Mechanical Test

Cliente/Customer : LPG EQUIP
 Lote/Batch : 0692/22
 Modelo/Type : 022G026
 1º e Último N.º Série/Range Serial N.º : RR07473 - RR09017
 Norma Construção/Construction Standard : EN1442:2006 (EN ISO 4136:2012)
 Material/Material : P310NB
 Encomenda/Order N.º : 21976/1_21976/2_22107/1
 Operador/Operator : J.MARQUES
 Entidade Inspetora / Notified Body : IN-HOUSE INSPECTION SERVICE
 OBS :
 Date/Data : 18/05/2022

Resultados/Results:

Legend	Specimen no.	Garr/Cyl N°	Prov/Specm type	S ₀ mm ²	R _m MPa
max					550
min					460
	1	RR07625	B	58,46	540
	2	RR08046	B	60,32	543
	3	RR08693	B	59,60	542
	4	RR09003	B	59,86	539

Series graph:



Referência do equipamento de ensaios mecânicos / Mechanical equipment Reference: MQ.1.010

Ensaio de dobragem e macroscopia/ Bend and macroscopic Tests
Relatório nº/ Report n°:
Cliente/ Customer:
LPG EQUIP.
Lote/ Batch:
0692/22
Modelo/ Type:
022G026
1º e Último número de série/ Range
RR07473 - RR09017
Serial N.º:
Norma Construção/ Construction
EN 1442:2006 (ISO 5173:2009)
Standard:
Material/ Material:
P310NB
Encomenda/ Order N.º:
21976/1_21976/2_22107/1
Operador/ Tester:
J.MARQUES
Data/ Date:
18/05/2022
Entidade Inspectora/ Notified Body: IN-HOUSE INSPECTION SERVICE
OBS:

N. Garrafa/ Serial N.º	Tipo Provete/ Specimen Type	Resultados Ensaio/ Test Results	N. Garrafa/ Serial N.º	Tipo Provete/ Specimen Type	Resultados Ensaio/ Test Results	N. Garrafa/ Serial N.º	Tipo Provete/ Specimen Type	Resultados Ensaio/ Test Results
RR07625	C	GOOD	RR08046	C	GOOD	RR08693	C	GOOD
	D	GOOD		D	GOOD		D	GOOD
	MACRO	GOOD		MACRO	GOOD		MACRO	GOOD
RR09003	C	GOOD						
	D	GOOD						
	MACRO	GOOD		MACRO			MACRO	
	MACRO			MACRO			MACRO	
	MACRO			MACRO			MACRO	
	MACRO			MACRO			MACRO	
Punção (raio) Punction (radius)		3						

Bom/Good - Nenhuma fratura detetada ou fraturas abaixo de 3mm (NCh078:1999 or NC02:2000-08)/Any crack detected or crack below 3 mm (NCh078:1999 or NC02:2000-08)

Mau/Bad - Fratura detetada ou fraturas acima de 3mm (NCh078:1999 or NC02:2000-08)/Crack detected or crack above 3 mm (NCh078:1999 or NC02:2000-08)

Cliente/Utilizador: LPG EQUIP.

 Lote n.º 0692-22 Modelo: 022G026

 Norma Construção: EN 1442 : 2006

Client/User

Batch n.º

Type

Construction Standard

 Equipamento de teste: ER01

Test Equipment

No caso de Ensaios pela Norma CFBP MA.CD/ST.01 ou exigência Cliente emitir o Anexo II/In case of CFBP MA.CD/ST.01 Standard or Client requirement issue the Annex I

N.º Série Serial n.º	Peso (1) Tare Weight			Capacidade Volumetric Capacity	Expansão volumétrica Hydrostatic test at			Rotura (instab. plástica) <i>Burst</i> Test				Instab. Elastica Elastic Instabil. (bar)	Símbolo Rotura (*) Burst Symbol (*)	Obs.:
	Vazia Empty		Cheia Full		psi	bar		Pressão Pressure		Dilatação Expansion	%			
	Total Total Expansion		Permanente Permanent Expansion		%	(bar)	(psi)	(l)						
	(lb)	(kg)							(kg)	(ml)				
RR07509	---	10,234	37,350	27,18	---	---	---	94,80	---	8,30	30,5	---		
RR07815	---	10,100	37,118	27,08	---	---	---	93,50	---	8,80	32,5	---		
RR08381	---	10,076	37,188	27,18	---	---	---	93,00	---	9,80	36,1	---		
RR08552	---	10,104	37,214	27,18	---	---	---	94,30	---	9,70	35,7	---		
RR08820	---	10,138	37,278	27,21	---	---	---	94,50	---	8,60	31,6	---		

Especificação Min/ Min Specification				26,50				67,50			20,0			

 Nota (1): para transformar kg de água em litros multiplicar por: 1,0024

Note (1): to convert kg of water in litre multiply by:

 Data: 18/05/2022

 Operador: Hugo

 Entidade Inspectora: IN-HOUSE INSPECTION SERVICE Aprovado/Approved

Date

Lab Worker

Inspector

 Rejeitado/Rejected

(*) O ensaio de rotura não deve provocar nenhuma fragmentação da garrafa. A fractura não deve fazer aparecer defeito caracterizado no metal.

/No fragmentation of the cylinder. The main fracture must not show any brittleness, i.e. the edges of the fracture must not be radial but must be at an angle to a diametral plane and display a reduction of area throughout their thickness. The fracture must not reveal a clear defect in the metal.
B -Boa fractura comprimento longo/Good fracture Long length

b - Boa fractura comprimento curto/Good fracture short length

M - Má fractura/Bad fracture

Qualidade e Ambiente/Quality and Environment

Cliente: Cliente:	LPG EQUIP				Modelo: Type:	022G026			Lote n° Batch n°	0692/22				
Documento Execução: Execution Documente:		EN1442:2006			Classificação: Classification:	Class B		Documento Aceitação:	EN1442:2006					
Material Material	Proc. Soldadura Weiding Proc.	Chanfro Loggle	Espes. Radio. Radio.Thick. (mm)	Espes. Interp. Interpret. Thickness (mm)	Densidade Density	Ecrans (mm)	Sensibilidade Sensibility	IQI	Ug (mm)	Equipamento Equipment	Intensidade Intensity (mA)	Tensão Voltage (kv)	Filme Film	DFF 1 (mm)
P310NB	S.A.S S.A.W	C/ REBAIXO JOGGLE JOINT	8,6	5,2	>2	0,1	W15	13 FE EN	0,029	ERD1	10	144	KODAK MX125	770
Diâmetro Focal Focal Diameter (mm)	Tempo Exposição Exposition Time (s)	OBS						Téc. Tec.						
(3X3) 4,24	90	Maquina Machine	Garrafa n° Cylinder n°	Soldadura Welding	Raio X X Ray	Interpret.	Decisão Decision		Tec.	OBS			Decisão Decision	
N1	RR07477	Circunferencial / Circunferencial	0-1	-	1				Bom / Good		-			
N2	RR07481	Circunferencial / Circunferencial	0-1	-	1				Aceitável/Aceptable		/			
N3	RR07486	Circunferencial / Circunferencial	0-1	-	1				Reparar/Repair		+			
D1	RR07630	Circunferencial / Circunferencial	0-1	-	1				Aceit.A Rep/Acep. A Rep.		x			
D2	RR07635	Circunferencial / Circunferencial	0-1	-	1				Rejeitar/Reject		o			
D3	RR07639	Circunferencial / Circunferencial	0-1	-	1									
Amtrol-Alfa														
											Técnico			
											Technician			
											Data			
											Date	18/05/2022		
											Validado por:			
											Approved by:			
											Data			
											Date			

Nota 1/Note 1 min. DFO = DFF-ØC Cilindro / min. DSO = DSF-Øc Vessel
(ASME CODE) max. DOF = espessura + 4 /max. DOF = Thickness + 4mm

Chave de Interpretação / Interpretation Key		IIW	ISO 6520- 1 / ISO 5817
INCLUSÕES GASOSAS/GAS INCLUSIONS	Esféricas/ <i>Pore</i>	Aa	2011
	Vermiculares/ <i>Worm-hole</i>	Ab	2016
INCLUSÕES SÓLIDAS/SOLID INCLUSIONS	Quaisquer/ <i>Any</i>	B	300
	Inclusões escória/ <i>slag inclusions</i>	Ba	301
	Alinhadas/ <i>aligned</i>	Bb	3011
	Alternadas/ <i>alternated</i>	Bc	3012
	Fluxo/ <i>Flux</i>	G	302
	Metais/ <i>Metallic</i>	H	304
	Oxidos/ <i>Oxide</i>	J	303
	Inclusões de tungsten/ <i>Tung. Inclusions</i>	T	3041
DESC. GEOMÉTRICAS/GEOMETRIC	Rebarbagem/ <i>Grinding</i>	Bd	604
	Bordos Queimados/ <i>Undercut</i>	F	501
	Sulcos superficiais/ <i>Intermittent undercut</i>	Fa	5012
	Sulcos na raiz/ <i>Shrinkage undercut</i>	Fb	5013
	Excesso de penetração/ <i>Excess</i>	Fd	504
	Excesso de metal/ <i>Excess weld metal</i>	Fc	502
	Abatimento na raiz/ <i>Root concavity</i>	Fe	515
	Abatimento na face/ <i>Face concavity</i>	-	511
	Def. mudança electr./ <i>Elect. change def.</i>	Be	517
	Cratera/ <i>Crater</i>	K	2024
Expulsão de metal/ <i>Melt through</i>	L	602	
DESC. PLANARES/PLANNING DESCONT.	Fissura longitudinal/ <i>Longitudinal crack</i>	Ea	101
	Fissura transversal/ <i>Transverse crack</i>	Eb	102
	Fissura de cratera/ <i>Crater crack</i>	Ec	104
	Falta de fusão/ <i>Lack of fusion</i>	C	401
	Falta penetração/ <i>Lack of penetration</i>	D	402
OUTROS/OTHER	Desalinhamento linear entre placas/ <i>Linear</i>	Da	5071
	Outras imperfeições/ <i>Miscellaneous</i>	Z	600

INSPECTION CERTIFICATE NF EN 10204-3.1/DIN 50049-3.1.B/ISO 10474

Signle du producteur / Mill's identification
T Re=310 MINI MPA Rm=460 -550 MPA A%(80)=21 MINI E/R=85 MAXI

FOS

(5) EDC: Conforme cahier charges / According specifications
BL : Brut de laminage / As rolled
LN : Laminage normalisant / Normalization rolling
A : Revenu / Tempering
TE : Trempé à l'eau / Water quenching
LTC : Laminé temp. contrôlée / Control rolling
TM : Laminage thermo-mécanique / Thermo-mechanical forming
N : Normalisé / Normalizing
D : Détensionné / Stress relieving
G : Adouci par recuit / Soft annealing

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T:+33(0)44247-3314 F:+33(0)44247-3231
E: un.scu(a)arcelormittal.com

Organisme et/ou service de contrôle / Inspection organism RECEPTION USINE A05	Client et/ou destinataire / Customer and/or consignee AMTROL - ALFA METALOMEGANICA S.A. ESTRADA NACIONAL 206. KM38 - BRITO PORTUGAL A06	N° Commande Courtier/Client / Customer's Order Nbr 140359 A07	N° Commande Usine / Mill's Order Nbr GH14146022 000002 A08	Nuances et spécifications techniques / Grade and technical specifications P310NB+N_A_LFA-CA003-ED08 COIL,PICKLED,EDGE TRIMMED,OILED MP.CBP310.22570 B03	Etat de livraison / Delivery condition LTC : LN B04 Traitement de référence / Treatment of test samples N B05
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Identification du produit / Product identification		Poste	Nombre de pièces / Number of pieces	Dimensions / Sizes (mm)			Masse Weight (kg) (7)	Traction / Tensile requirements													Résilience / Impact testing							
Repère pièce / Plate number	Coulée Heat	Item		Epaisseur Thickness	Largeur Width	Longueur Length		Loc (2)	S (3)	Pos Z(4)	Type	Ref (5)	Temp.	ReEH	Rm	A%	E/R			Loc (2)	Ref	Type	S (3)	Temp.	Pos Z(4)	Valeurs individuelles / Individual values		Moyenne Average
B07	B07	A01	B08	B09	B10	B11	B13	C01	C02	C06	C10	N	C03	C11	C12	C13	<-C14-C29		C60-C69->	C01		C40	C02	C08	C62	<-C42- - ->		C43
3539031	730126276	001		2,250	1550,00		11867	1	T	P	PRISM	N	20	361	489	29,0	0,74											
3539031AX	730126276	001	1	2,250	1550,00		11737																					
3539031BX	730126276	001	1	2,250	1550,00																							
3539032	730126276	001		2,250	1550,00		12007	1	T	P	PRISM	N	20	358	491	28,6	0,73											
3539032AX	730126276	001	1	2,250	1550,00		11837																					
3539032BX	730126276	001	1	2,250	1550,00																							
3539033	730126276	001		2,250	1550,00		12067	1	T	P	PRISM	N	20	353	494	29,3	0,71											
3539033AX	730126276	001	1	2,250	1550,00		11837																					
3539033BX	730126276	001	1	2,250	1550,00																							
3539026	730126350	001		2,250	1550,00		11877	1	T	P	PRISM	N	20	351	483	31,4	0,73											
3539026AX	730126350	001	1	2,250	1550,00		11147																					
3539026BX	730126350	001	1	2,250	1550,00																							

AC:C =0,200 MAXI MN=0,700-1,250 P =0,025 MAXI S =0,015 MAXI SI=0,300 MAXI AL=0,020 MINI NB=0,050 MAXI TI=0,030 MAXI N =0,009 MAXI

Meth. (6) of steel making	Repère Pièce / Plate number	N° Coulée / Heat number	* Analyse sur produit / Check analysis																									
			C%	Mn%	P%	S%	Si%	AL%	N%	NB%	TI%	C80	C81	C82	C83	C84	C85	C86	C87	C88	C89	C90	C91	C92	C96	C97		
C70/93 O/YCC	B07	B07 730126276	C71 0,152	C72 1,117	C73 0,012	C74 0,003	C75 0,178	C76 0,039	C77 0,005	C78 0,000	C79 0,015																	
O/YCC		730126350	0,150	1,134	0,011	0,003	0,188	0,039	0,005	0,000	0,016																	

Emplacement/Location (2) 1 Tête / Head 2 Pied / Bottom 3 1/2 longueur / Length C01	(3) Sens/Direction L: Long / Longitudinal T: Travers / Transverse Z: Travers court / Through thick X: Divers / Mix C02	(4) Position C: Coeur / Core sample P: Peau / Rolled surface D: 1/3 Epais. / Thickness Q: 1/4 Epais. / Thickness F: 1/5 Epais. / Thickness K: Divers / Mix C62	(6) Mode élab. Meth. Coulée T: Thomas M: Martin E: Electrique / Electric O/Y: Oxy.pur / Basic oxyg. CC: Coulée Continue / Continuous casting G70/93	(7) Masse et nb pièces a titre indicatif. Mass and quantity of pieces as a rough guide	We hereby certify that the above cited shipment was produced according to the technical specifications of the contract and that, with inspection and tests completed, it meets those specifications as well as all norms and standards referred to in the contract. Contrôle de marquage, d'aspect et de dimensions : satisfaisants Inspection of markings, surface, sizes : satisfactory.	Date 07/01/22 Agent / Receiving Agent F. SIXDENIERS D01 Z02
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INSPECTION CERTIFICATE NF EN 10204-3.1/DIN 50049-3.1.B/ISO 10474



ArcelorMittal
ARCELORMITTAL MEDITERRANEE Site de FOS
13776 FOS SUR MER CEDEX - FRANCE
T:+33(0)44247-3314 F:+33(0)44247-3231
E: un.scu(a)arcelormittal.com

Signature du producteur / Mill's identification
T Re=310 MINI MPA Rm=460 -550 MPA A%(80)=21 MINI E/R=85 MAXI

FOS

(5) EDC: Conforme cahier charges / According specifications
BL : Brut de laminage / As rolled
LN : Laminage normalisant / Normalization rolling
A : Revenu / Tempering
TE : Trempé à l'eau / Water quenching
LTC : Laminé temp. contrôlée / Control rolling
TM : Laminage thermo-mécanique / Thermo-mechanical forming
N : Normalisé / Normalizing
D : Détensonné / Stress relieving
G : Adouci par recuit / Soft annealing

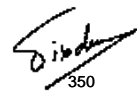
B03 (1)

Organisme et/ou service de contrôle / Inspection organism RECEPTION USINE A05	Client et/ou destinataire / Customer and/or consignee AMTROL - ALFA METALOMECANICA S.A. ESTRADA NACIONAL 206. KM38 - BRITO PORTUGAL A06	N° Commande Courtier/Client / Customer's Order Nbr 138651 A07	N° Commande Usine / Mill's Order Nbr GH14146003 000001 A08	Nuances et spécifications techniques / Grade and technical specifications P310NB+N_ALFA-CA003-ED08 COIL,PICKLED,EDGE TRIMMED,OILED MP.CBP310.22570 B01 B02	Etat de livraison / Delivery condition LTC : LN B04 Traitement de référence / Treatment of test samples N B05
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Identification du produit / Product identification		Poste / Item	Nombre de pièces / Number of pieces	Dimensions / Sizes (mm)			Masse Weight (kg) (7)	Traction / Tensile requirements														Résilience / Impact testing						
Repère pièce / Plate number	Coulée Heat	Item		Epaisseur Thickness	Largeur Width	Longueur Length		Empla. Loc (2)	S (3)	Pos. Z(4)	Type	Ref. R(5)	Temp.	ReEH	Rm	A%	E/R			Empla. Loc (2)	Ref. Ref	Type	S (3)	Temp.	Pos. Z(4)	Valeurs individuelles / Individual values		Moyenne Average
B07 2659026 2659026AX 2659026BX	B07 730125639 730125639 730125639	A07 001 001	B08 1 1	B09 2,250 2,250 2,250	B10 1550,00 1550,00 1550,00	B11	B13 12757 12617	C01 1	C02 T	C06 P	C10 PRISM	N	C03 20	C11 362	C12 490	C13 27,5	<-C14-C29 0,74		C60-C69->	C01		C40	C02	C08	C62	<---C42---		C43

AC:C=0,200 MAXI MN=0,700-1,250 P=0,025 MAXI S=0,015 MAXI SI=0,300 MAXI AL=0,020 MINI NB=0,050 MAXI TI=0,030 MAXI N=0,009 MAXI

Meth. (6) of steel making	Repère Pièce / Plate number	N° Coulée / Heat number	* Analyse sur produit / Check analysis																									
			C%	Mn%	P%	S%	Si%	AL%	N%	NB%	TI%	C80	C81	C82	C83	C84	C85	C86	C87	C88	C89	C90	C91	C92	C96	C97		
C70/93 O/YCC	B07	B07 730125639	C71 0,150	C72 1,161	C73 0,016	C74 0,003	C75 0,193	C76 0,041	C77 0,004	C78 0,001	C79 0,013																	

Emplacement/Location (2) 1 Tête / Head 2 Pied / Bottom 3 1/2 longueur / Length C01	(3) Sens/Direction L: Long / Longitudinal T: Travers / Transverse Z: Travers court / Through thick X: Divers / Mix C02	(4) Position C: Coeur / Core sample P: Peau / Rolled surface D: 1/3 Epais. / Thickness Q: 1/4 Epais. / Thickness F: 1/5 Epais. / Thickness K: Divers / Mix C62	(6) Mode élab. Meth. Coulée T: Thomas M: Martin E: Electrique / Electric O/Y: Oxy. pur / Basic oxyg. CC: Coulée Continue / Continuous casting 70/93	(7) Masse et nb pièces a titre indicatif. Mass and quantity of pieces as a rough guide	We hereby certify that the above cited shipment was produced according to the technical specifications of the contract and that, with inspection and tests completed, it meets those specifications as well as all norms and standards referred to in the contract. Contrôle de marquage, d'aspect et de dimensions : satisfaisants Inspection of markings, surface, sizes : satisfactory.	Date 16/12/21 Agent / Receiving Agent F. SIXDENIERS D01 Z02	
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SELİM MAKİNA
SANAYİ VE TİCARET LİMİTED ŞİRKETİ
Fabrika/Factory : Antakya-İskenderun Karayolu Üzeri 8. Km Antakya/Hatay/TÜRKİYE
Tel : (00 90 326) 285 53 70-285 53 71 Fax: (00 90 326) 285 52 40
Web: www.selimmakina.com.tr E-Mail: selim@selimmakina.com.tr



QUALITY CERTIFICATE

According to the norm

EN 10204-3.1 and EN 10083-2

CUSTOMER	: AMTROL-ALFA	DATE :21.01.2022
CONFIRMATION REF.	: BOLACHA MAQ.BLM095 (C22E) 3/4" NGT - FURO Q45	
INVOICE NO	: SLM2022000000060	
DOCUMENT NO	: 2022/01-005	
CASTING NO	: SM01/220503	
ORDER NO	: 142990	
BATCH NO	: 2022/03	
QUALITY GRADE	: C22E	
CROSS-SECTION	: Ø40mm	
LENGTH	: -----	

CHEMICAL ANALYSIS

C	Mn	Cu	P	S	Ni	Mo	Si	Cr	V	Al
0,20	0,46	-	0,02	0,028	0,26	0,03	0,25	0,33	-	-

MECHANICAL PROPERTIES

Hardness	134 HB
Yield Point	311 N/mm ²
Breaking Dilatation	% 25
Tensile Strength	430 N/mm ²

QUALITY COORDINATOR APPROVAL

Merkez/Fabrika: İskenderun Yolu Üzeri 8. Km. Karaoğlan Cd. No: 7 Antakya
Tel: +90.326 285 53 70 - 71 Fax: +90.326 285 52 40 / 53 78
23 Temmuz Y.D. 760 001-52 80 Tic.Sic.No: 4274 - Oda Sic.No: 8280
Mersis No: 07 60 0015 2878 0017

ANTAKYA İSKENDERUN KARAYOLU ÜZERİ 8. KM ANTAKYA/HATAY/TURKIYE
TEL: 0 (326) 285 53 70-71 FAKS: 0 (326) 285 52 40

1707/22

Declaration of conformity

(Déclaration UE de conformité / Konformitätserklärung)

We, **Manufacturer** / Nous, fabricant / Wir, der Hersteller

SRG Schulz + Rackow Gastechnik GmbH

Declare that the product / Déclarons que le produit / Bestätigen dass das Produkt

FS80-0°, 3/4"NPT-TF, 1/2"SAE, D300

Part number / Numéro d'article / Artikel Nummer: **481-100-1048**

Quantity / Quantité / Anzahl: **300**

Your purchase order / Votre commande / Ihre auftrag: **105013**

Your designation-Type / Votre désignation / Ihre Bezeichnung:

Your article reference / Votre référence article / Ihre Artikel

Referenz:

Date of delivery / Date de livraison / Lieferungsdatum:

Batch number / N° Lot / Losnummer: **FA36012412\FA36012139**

Classification / Classification / Klassifizierung:

GMDN Code / Code GMDN / GMDN-Code:

Description / Description / Beschreibung:

To which this declaration is referring to is in compliance with the following directives, regulations or norms

/Auquel cette déclaration se rapporte, est conforme aux directives, règlements ou normes suivantes

/Auf welche sich diese Erklärung bezieht, ist in Einklang mit den folgenden Richtlinien, Bestimmungen bzw. Normen

Directive / Richtlinie	Module / Modul Richtlinie	The monitoring is performed by La surveillance est effectuée par Die Überwachung wird durchgeführt von	Nr
2014/68/EU (PED)	B+D	APRAGAZ Chaussée de Vilvoorde 156 B-1120 Bruxelles	0029

EC certificate of conformity nr. / Numéro du certificat / EG-Konformitätsbescheinigung: **01/CZ/196**

Module B / Numéro du certificat / Nummer der EG-Baumusterprüfbescheinigung :

03/DE/685

In witness where of these equipments bear the mark / Comme témoins ces produits portent le marquage / Als Erkennungszeichen tragen diese Produkte folgende Markierung

CE0029

[Other Directive(s), Standard(s) / autre directive(s), norme(s) / andere Richtlinien, Normen]:

This declaration of conformity is issued under the sole responsibility of the manufacturer.

/ La presente déclaration de conformité est établie sous la seule responsabilité du fabricant. / Die alleinige Verantwortung für die Ausstellung dieser Konformitätserklärung trägt der Hersteller: Konformitätserklärung trägt

Name / Nom :

Place and date / Ort und Datum:

Signature / Unterschrift:

03/14/2022

Page 1/1



ROTAREX
Group
Pízeňská 2085
347 01 Tachov
Czech Republic

1707/22

Certificat of compliance with the order to EN 10204-2.1
Attestation de conformité à la commande suivant EN 10204-2.1
Werksbescheinigung nach EN 10204-2.1

Certificate no.: DEL010069 **Page:** 1 / 1
N° de l'attestation: **Page:**
Zertifikat-Nr.: **Seite:**

Customer: Client: LPG Equipment B.V.
Kunde: 201998-01

N° et date du bordereau de livraison : DEL010069
Nummer und Datum des Lieferscheins:
Number and date of delivery note: 3/14/2022

Order number: <i>N° commande:</i> <i>Auftragsnummer:</i>	Designation / Batch number <i>Désignation / N° du lot - Bezeichnung /</i> <i>Nummer des gelieferten Loses</i>	Article no. <i>N° article</i> <i>Artikel-Nr.</i>	Customer reference <i>Référence client</i> <i>Kundenspezifikation</i>	Quantity <i>Quantite</i> <i>Stückzahl</i>
* ORC35341/1 201998-01	FS80-0°, 3/4"NPT-TF, 1/2"SAE, D300	481-100-1048		300.00

We certify that the supplies detailed here were manufactured and checked in accordance with the technical specifications of the customer's order the relevant drawings and internal specifications in force and the requirements of the ISO 15500 as stated in CCOE approval n° G.3 (4)201 dated 3.3.2010

- Requirements of regulation EC Nr. 1935/2004 Materials and objects which are intended to come in contact with the foodstuffs and fill these provisions

Nous certifions que la fourniture citée a été fabriquée et contrôlée conformément aux spécifications technique de la commande du client aux plans et spécifications techniques internes en vigueur et aux exigences de l'ISO 15500 approuvée par le rapport d'homologation du CCOE G.3 (4)201 daté du 3.3.2010

Exigences de la réglementation CE Nr. 1935 /2004 Matériaux et objets qui sont destinés à venir en contact avec les produits alimentaires et remplissent ces dispositions

Wir bescheinigen dass die vorliegende Lieferung hergestellt und geprüft wurde entsprechend den technischen Forderungen des Kundenauftrages den aktuellen Zeichnungen und internen technischen Spezifikationen und die Anforderungen der ISO-15500, wie es im CCOE approval n°G.3(4)201 von.3.3.2010 heißt

Der Anforderungen nach Verordnung EG Nr. 1935/2004 Materialien und Gegenstände welche dazu bestimmt sind mit Lebensmittel in Berührung zu kommen und diese Bestimmungen erfüllen

Particular information to the delivered supplies:

Renseignements particuliers aux fournitures livrées:

Spezielle Angaben zu den Lieferungen:

3/14/2022

VISA - BEGLAUBIGUNG - SIGNATURE

