

Scope of the approval – Manufacturer of material in accordance with PER 2016/1105, Schedule 2, Part 4, Para. 31 (8)

Annex to certificate no. PER-0168-QS-M 3308663/2023/MUC-01 von / dated 2023-07-03

Name: Rubiera Special Steel S.p.A.

Manufacturer:

Street: Via XXV Aprile, 64

City: 42013 S. Donnino di Casalgrande (RE)

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Competent Body of TUV SUD BABT Unlimited

No.	Material Designation	Material		Delivery	Description		Dime	nsions		W	eight	Require	ements	B-11-11 11- 070000040 00
	Material Grade	Specif	ication	Condition	Product	Thic	kness	Dia	meter	1=t		Technical Rules		Report no. C722300916-23 dated 2023-02-14
			1			[r	nm]	[r	mm]	2=kg			•	
		Spec.	No.	Code		from	to	from	to	\downarrow	value	Spec.	No.	Remarks
1	2	3a	3b	4	5	6a	6b	7a	7b	8a	8b	9a	9b	10
01	Unalloyed steel for tubes P235TR1 (1.0254), P265TR1 (1.0258), P235TR2 (1.0255), P235TR2 (1.0259) P265TR1 (1.0258), P265TR2 (1.0259), St37-3	EN EN DIN	10216-1 10217-1 **	U	Ingot	-	-	-	-	1	145			*) To fulfil essential safety requirements of PER Schedule 2, for each material acc. to non designated standards a Particular Material Appraisal (PMA) is mandatory. **DIN 1626, DIN 1628, DIN 1629, DIN 1630*)
02*)	S235JR (1.0038), C22 (1.0402) C25 (1.0406), C30 (1.0528) C35 (1.0501), C40 (1.0511) C45 (1.0503), C40E (1.1185) C50 (1.0540)	EN EN	10025-2 10250-2	U	Ingot	-	-	-	-	1	145			
03	Fine grained steel for flat products P275NH (1.0487), P275NL1 (1.0488) P275NL2 (1.1104) P355N (1.0562), P355NH (1.0565), P355NL1 (1.0566), P355NL2 (1.1106) P460NH (1.89359, P460NL1 (1.8915) P460NL2 (1.8918)	EN	10028-3	U	Ingot	-	-	-	-	1	145			
														For the use of materials acc. to column 2 till 4 the regulations and limits of the respective standards have to be observed. The specific material operating conditions have to be approved by the pressure equipment manufacturer or respectively by the Approved Body in charge.

Explanation:

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No	o. Material Designation	Material		Delivery	Description		Dime	nsions		Weight		Require	ements	
	Material Grade	Specif	fication	Condition	Product	Thi	ckness	Dia	meter	1=t		Technical Rules		Report no. C722300916-23
							mm]		nm]	2=kg				dated 2023-02-14
		Spec.	No.	Code		-		_		Z-kg				Remarks
						from	to	from	to	\	value	Spec.	No.	
	1 2	3a	3b	4	5	6a	6b	7a	7b	8a	8b	9a	9b	10
044	StE285 (1.0486), WStE285 (1.0487) TStE285 (1.0488), StE355 (1.0562) WStE355/P355NH (1.0565), TStE355/P355NL1 (1.0566) StE420/S420N (1.8902), WStE420/P420NH (1.8932) TStE420/S420NL (1.8912), StE460 (1.8905), WStE460 (1.8935), TStE460 (1.8915) StE500 (1.8907), WStE500 (1.8937) TStE500 (1.8917) P285NH (1.0477), P235GH (1.0478) P420QH (1.8936), P460QH (1.8871) P285GH (1.0478), P355NL2 (1.1106), P355QL1 (1.8868), P355QL2 (1.8869), P460QL1 (1.8872) P460NL2 (1.8864), P460NL1 (1.8872), P460NL2 (1.8864)	EN TÜVV TÜVV TÜVV DIN	10222-4 352/3*) 354/3*) 356/3*) 357/3*) 17103*)		Ingot	-		-	-	1	145			*) To fulfil essential safety requirements of PER Schedule 2, for each material acc. to non designated standards a Particular Material Appraisal (PMA) is mandatory.
05	Heat resistant steel for flat materials 16Mo3 (1.5415), 10CrMo9-10 (1.7380), 13CrMo4-5 (1.7335), P295GH (1.0481), P265GH (1.0425), P235GH (1.0345)	EN DIN	10028-2 17155*)	U	Ingot	-	-	-	-	1	145			For the use of materials acc. to column 2 till 4 the regulations and limits of the respective standards have to be observed. The specific material operating conditions have to be approved by the pressure equipment manufacturer or respectively by the Approved Body in charge.

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Competent Body of TUV SUD BABT Unlimited

No.	No. Material Designation		Material		Description		Dime	nsions		Weight		Requirements		D / 070000040 00	
	Material Grade	Specif	ication	Condition	Product	Thic	kness	Dia	meter	1=t		Technical Rules		Report no. C722300916-23 dated 2023-02-14	
						[r	mm]	[1	mm]	2=kg				dated 2023-02-14	
		Spec.	No.	Code		from	to	from	to	↓	value	Spec.	No.	Remarks	
1	2	3a	3b	4	5	6a	6b	7a	7b	8a	8b	9a	9b	10	
06	Heat resistant steel for seamless tubes 15Mo3 (1.5415), 14MoV6-3 (1.7715), 10CrMo9-10 (1.7380), 13CrMo4-4 (1.7335) 11CrMo9-10 (1.7383), 16Mo3 (1.5415), 15NiCuMoNb5 (1.6368), 25CrMo4 (1.7218) 20CrMoV13-5-5 (1.7779), P235GH (1.0345), P265GH (1.0425), X10CrMoVNb9-1 (1.4903), X20CrMoV11-1 (1.4922)	EN DIN	10216-2 17175*)	<u> </u>	Ingot	-	-	-	-	1	145	54	35	*) To fulfil essential safety requirements of PER Schedule 2, for each material acc. to non designated standards a Particular Material Appraisal (PMA) is mandatory.	
07	Heat resistance steels for connecting elements C35 (1.0501), CK35 (1.1181), Cq35 (1.1172), 24CrMo5 (1.7258), 21CrMoV5-7 (1.7709), X22CrMoV12-1 (1.4923)	EN DIN	10269 17240*)	U	Ingot	-	-	-	-	1	145				
08	23MnB4 (1.5535), 20Mn5 (1.1133), 25CrMo4 (1.7218), 42CrMo4 (1.7225) 40CrMoV4-6 (1.7711), 27NiCrMoV15-6 (1.6957), 26NiCrMo14-6 (1.6958), 21CrMoV5-7 (1.7709), 34CrNiMo6 (1.6582), 30CrNiMo8 (1.6580), X22CrMoV12-1 (1.4923), C35E (1.1181), C45E (1.1191)	EN	10269	U	Ingot	-	-	-	-	1	145			For the use of materials acc. to column 2 till 4 the regulations and limits of the respective standards have to be observed. The specific material operating conditions have to be approved by the pressure equipment manufacturer or respectively by the Approved Body in charge.	

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No.	Material Designation	Mat	terial	Delivery	Description		Dimensions		W	eight	Requir	ements		
	Material Grade	Speci	fication	Condition	Product	Thic	ckness	Dia	meter	1=t		Technical Rules		Report no. C722300916-23
							mm]		nm]	2=kg				dated 2023-02-14
		Spec.	No.	Code		from	to	from	to	.1.	value			Remarks
1	2	3a	3b	4	5	6a	6b	7a	7b	8a	8b	Spec. 9a	No. 9b	10
09	Heat resistance steels for forgings rolled or rolled bars P305GH (1.0436), 16Mo3 (1.5415) 13CrMo45 (1.7335), P235GH (1.0460), P265GH (1.0425), P280GH (1.0460), P265GH (1.0425), P280GH (1.0426), P295GH (1.0481), 18MnMoNi5-5 (1.6308) 14MoV6-3 (1.7715), 11CrMo9-10 (1.7383), P245GH (1.0352) X10CrMoVNb9-1 (1.4903) X20CrMoVNb9-1 (1.4903) X20CrMoV11-1 (1.4922), C22.8 (1.0460), 20Mn5 (1.1133) 15Mo3 (1.5415), 13CrMo4-4 (1.7335) 10CrMo9-10 (1.7380), 14MoV6-3 (1.7715) C 22.8 (1.0460) for flange	EN DIN	10222-2 17243*)	-	Ingot	-	-	-	-	1	145	J a	30	*) To fulfil essential safety requirements of PER Schedule 2, for each material acc. to non designated standards a Particular Material Appraisal (PMA) is mandatory.
	C 22.3 (1.0460) for flange C 22.3 (1.0427) 15NiCuMoNb5 (1.6368) C 21 / A105 (1.0432) 12CrMo 9 10 (1.7375) 20MnMoNi 4 5 (1.6311) A350 LF2 12CrMo 19 5 (1.7362) X3CrNiMo 13 4 (1.4313) X10CrMoVNb 9 1 (1.4903) X10CrWMoVNb 9 2 (1.4901) X20CrMoV11-1 (1.4922)	TÜVV TÜVV TÜVV TÜVV TÜVV TÜVV TÜVV TÜVV	350/3 364 377/3 399 404/3 440/3 488 007/3 395/3 511/3 552/3 110		ingot						145			For the use of materials acc. to column 2 till 4 the regulations and limits of the respective standards have to be observed. The specific material operating conditions have to be approved by the pressure equipment manufacturer or respectively by the Approved Body in charge.

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No.	Material Designation Material Grade	Material Specification		Delivery Condition	Th:		nsions		We 1=t	eight	Require Technic		Report no. C722300916-23	
							kness nm]		meter mm]	1=t 2=kg				dated 2023-02-14
		Spec.	No.	Code		from	to	from	to	∠ Ng ↓	value	Spec.	No.	Remarks
1	2	3a	3b	4	5	6a	6b	7a	7b	8a	8b	9a	9b	10
11*)	X50CrMoV15 (1.4116) X45CrMoV15 (1.4116) X6Cr13 (1.4000) X14CrMoS17 (1.4104) X12Cr13 (1.4006) X10Cr13 (1.4006)	EN DIN DIN	10088-3 17440 17441	U	Ingot	-	-	-	-	1	145			*) To fulfil essential safety requirements of PER Schedule 2, for each material acc. to non designated standards a Particular Material Appraisal (PMA) is mandatory.
12*)	X12Cr13 (1.4006)	EN	10088-2	U	Ingot	-	-	-	-	1	145			
13*)	41Cr4 (1.7035), 41CrS4 (1.7039) 25CrMo4 (1.7218), 34CrMo4 (1.7220) 42CrMo4 (1.7225), 50CrMo4 (17228) 34CrNiMo6 (1.6582) 30CrNiMo8 (1.6580) 36NiCrMo16 (1.6773) 39NiCrMo3 (1.6510) 51CrV4 (1.8159) 39MnCrB6-2 (1.7189)	EN	10083-3	U	Ingot	-	-	-	-	1	145			
14*)	C10E (1.1121), C10R (1.1207) C15E (1.1141), 16MnCr5 (1.7131) 20MnCr5 (1.7147), 18CrMo4 (1.7243) 17CrNi6-6 (1.5918), 20NiCRMo2-2 (1.6523) 17NiCrMo6-4 (1.6566) 18CrNiMo7-6 (1.6587) 14NiCrMo13-4 (1.6657)	EN	10084	U	Ingot	-	-	-	-	1	145			For the use of materials acc. to column 2 till
15*)	X12Cr13 (1.4006), X15Cr13 (1.4024) X20Cr13 (1.4021), X30Cr13 (1.4028) X46Cr13 (1.4034), X6Cr13 (1.4000) X3CrNiMo13-4 (1.4313) X17CrNi16-2 (1.4057) X14CrMoS17 (1.4104)	EN	10088-3	U	Ingot	-	-	-	-	1	145			4 the regulations and limits of the respective standards have to be observed. The specific material operating conditions have to be approved by the pressure equipment manufacturer or respectively by the Approved Body in charge.

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	Material Grade	Specif	ication	Condition	Product	Thi	ckness	Dia	meter	1=t		Technical Rules		Report no. C722300916-23
							mm]		mm]	2=kg				dated 2023-02-14
		Spec.	No.	Code		from	to	from	to	g	value	Casa	No	Remarks
1	2	3a	3b	4	5	6a	6b	7a	7b	8a	8b	Spec. 9a	No. 9b	10
16*)	X5CrNiCUNb16 4 (1.4542)	EN	10088-1	U	Ingot	-	-	-	-	1	145	σα	0.0	*) To fulfil essential safety requirements of PER
17*)	X38CrMoV 15 1 (1.2343) 40CrMnMoS8-6 (1.2312)	DIN	17350	U	Ingot	-	-	-	-	1	145			Schedule 2, for each material acc. to non designated standards a Particular Material Appraisal (PMA) is
18*)	St52.3 (1.0570)	DIN DIN	17100 1652-2	U	Ingot	-	-	-	-	1	145			mandatory.
19*)	28CrMoNiV4-9 (1.6985) 23NiCrMo7-4-7 (1.6749) 27NiCrMoV11-6(1.6948) 27NiCrMoV15-6 (1.6957) 30CrMoNiV5 11 (1.6946)	SEW	555	U	Ingot	-	-	-	-	1	145			
20*)	24CrMo13-6 (1.8516) 31CrMo12 (1.8515) 31CrMoV9 (1.8519) 34CrAlNi7-10 (1.8550) 41CrAlMo7-10 (1.8509)	EN	10085	U	Ingot	-	-	-	-	1	145			
21*)	410 (UNS S41000)	ASTM	A473	U	Ingot	-	-	-	-	1	145			
22*)	F91 type 1, F91 Type 2, F92, F6NM	ASTM	A182	U	Ingot	-	-	-	-	1	145			
23*)	AISI 4135, AISI 4130, AISI 4140	ASTM	A29	U	Ingot	-	-	-	-	1	145			
24*)	L5, L3	ASTM	A707	U	Ingot	-	-	-	-	1	145			For the use of materials acc. to column 2 till
25*)	F52, F60, F65, F70	ASTM ASME	A694 SA694	U	Ingot	-	-	-	-	1	145			4 the regulations and limits of the respective standards have to be observed.
26*)	LF1, LF2, LF3, LF5 LF6 Cl.1, Cl.2, Cl3	ASTM ASME	A350 SA350	U	Ingot	-	-	-	-	1	145			The specific material operating conditions have to be approved by the pressure equipment manufacturer or respectively by the Approved Body in charge.

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