

Certificate

Quality-Assurance System for Manufacturer of Materials acc. to Directive 97/23/EC

Certificate no.: 01 202 USA/Q-11 0251

Name and address of the manufacturer: **Tech Cast, LLC
640 S. Cherry St.
Myerstown, PA 17067
USA**

Herewith we certify that the material manufacturer has established and applies a Quality Management System. The system was audited according to the European Directive 97/23/EC, Annex I, Par. 4.3, with regard to the materials as listed in the scope of approval.

Tested acc. to Directive 97/23/EC: **QM System acc. to EN 764-5, article 4.2 and AD 2000-Merkblatt W0**

Audit report no.: USA/Q-11 0251

Range of materials: Production of investment castings, see annex to certificate

Manufacturing plant: **Tech Cast, LLC
640 S. Cherry St.
Myerstown, PA 17067
USA**

Valid until: **August 31, 2017**

Cologne, August 11, 2014  Dipl.-Ing. Svenja Krefß




TÜV Rheinland-Certification Body for
Pressure Equipment
TÜV Rheinland Industrie Service GmbH
Notified Body, ID-No. 0035
Am Grauen Stein, D-51105 Köln

E-106b-Rev7

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Annex to Certificate No. 01 202 USA/Q-11 0251
Details of the Validity of the Approval as Manufacturer of Materials in accordance to PED 97/23/EC and AD2000-W0 respectively

Manufacturer				Work						Nationality	Date	Page No.	TÜV-Name /Stamp
Company Name: Tech cast, LLC Location: 640 S. Cherry St. Myerstown, PA 17067 USA				As Manufacturer						USA	Nov. 20, 2015 Rev.: 2	1 of 2	
Current No.	Materials-term Materials-No.	Material Specification	Delivery Cond. *	Article Type of Product	Dimensions				Weight max 1=t / 2=kg ↓ result	Technical Specifications Requirements Technical Regulations	Remarks		
					Thickness mm		Ø mm						
					from	up to	from	up to					
1	2	3	4	5	6a	6b	7a	7b	8a	8b	9	10	
The use of the materials according to DGR 97/23/EC is bound to the publication of Harmonized European Standards or to the qualification by a European material approval or to the particular material appraisal. With that the manufacturing reliability for equivalent material grades according to other standards (e.g. BS, AFNOR, ASME) is proved. The requirements and limits of the applicable code respectively the PED must be observed for the use of material grades listed in column 2 to 4.													
01	WCA, WCB, WCC	ASTM / ASME A/SA 216	NT	Investment Casting	1	250	10	800	2	150	ASME	PMA required	
02	CF3M	ASTM / ASME A/SA 351	AT	Investment Casting	1	250	10	800	2	150	ASME	PMA required	
03	1.4404	ASTM / ASME A/SA 743	AT	Investment Casting	1	250	10	800	2	150	AD2000-W2, W10	PMA required	
		ASTM / ASME A/SA 744 EN 10213:2008											
04	CF8M	ASTM / ASME A/SA 351	AT	Investment Casting	1	250	10	800	2	150	ASME	PMA required	
05	CK3MCuN	ASTM / ASME A/SA 743	AT	Investment Casting	1	250	10	800	2	150	ASME	PMA required	
		ASTM / ASME A/SA 744											
		ASTM / ASME A/SA 351											
06	LCB, LCC	ASTM / ASME A/SA 352	NQT	Investment Casting	1	250	10	800	2	150	ASME	PMA required	
07	CW6MC	ASTM / ASME A/SA 494	AT	Investment Casting	1	250	10	800	2	150	ASME	PMA required	

08	CU5MCuC	ASTM / ASME A/SA 494	AT	Investment Casting	1	250	10	800	2	150	ASME	PMA required
09	CW12MW	ASTM / ASME A/SA 494	AT	Investment Casting	1	250	10	800	2	150	ASME	PMA required
10	M30C	ASTM / ASME A/SA 494	AT	Investment Casting	1	250	10	800	2	150	ASME	PMA required
11	M35.1	ASTM / ASME A/SA 494	AT	Investment Casting	1	250	10	800	2	150	ASME	PMA required
12	CD3MN (4A)	ASTM / ASME A/SA 890 ASTM / ASME A/SA 995	AT	Investment Casting	1	250	10	800	2	150	ASME	PMA required
13	CD3MWCuN	ASTM / ASME A/SA 890 ASTM / ASME A/SA 995	AT	Investment Casting	1	250	10	800	2	150	ASME	PMA required
14	CF8C	ASTM A 351 ASTM A 743 ASTM A 744 ASTM A 296 Mil-S-867 CL II Mil-S-81591	AT	Investment Casting	1	250	10	800	2	150	ASME	PMA required
15	CN7M	ASTM A 351 ASTM A 743 ASTM A 744 ASTM A 296	AT	Investment Casting	1	250	10	800	2	150	ASME	PMA required
16	CA6NM Class A & B	ASTM A 743 ASTM A 487	NT	Investment Casting	1	250	10	800	2	150	ASME	PMA required
17	CE3MN	ASTM A 890	AT	Investment Casting	1	250	10	800	2	150	ASME	PMA required
Remarks		* A = solution treatment and quenched L = solution treatment N = normalized S = stress relieved annealed TM = thermo mechanical treatment U = not treated V = quenched and tempered CR = temperature controlled rolled G = soft annealed										

