



**Annex to Certificate No.: 01 202 IND/Q-15 0007**
**Details of the Validity of the Approval as Manufacturer of Materials in accordance to DGR 97/23/EC and AD2000-W0/TRD 100 respectively**

Manufacturer		Work				Nationality	Date	Page No..	TÜV-Name /Stamp			
Company Name: Fivebros Forging Pvt Ltd		145 A GIDC ,Ankleshwar 393002. Gujarat , India				India	22-02-2015	1	TÜV Rheinland			
Location: 145 A GIDC , Ankleshwar							Rev.: 0	of : 5	Industrie Service GmbH			
Cur-	Materials-term Materials-No.	Material Specification	Delivery Cond.	Article Type of Product	Dimensions				Weight max		Technical Specifications Requirements Technical Regulations	Remarks
					Thickness mm		Ø mm		1=t / 2=kg	Re sul t		
1	2	3	4	5	6a	6b	7a	7b	8a	8b	9	10
<p>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.</p>												
	X5CrNi18-10 (1.4301), X2 CrNiMo 17 13. 2 (1.4404), X2CrNiMo N17-11.2 (1.4406), X5CrNiMo 17-12.2 (1.4401), X5 CrNiTi18-10 (1.4541), X5 CrNiMoTi17-12.2 (1.4571), X2CrNi 18-9 (1.4307)  C 22.8 (1.0460)  X2 CrNiMoN 22 (1.4462)	EN 10222-5   EN 10222-2  EN 10222-5	A   N  A	Flanges  Flanges  Forged Bars	DN 15  DN 600 PN 16 PN 160  TO 150# TO 24" 100 2500# Dia 350 DIA						AD 2000  Markblatt W2	
<b>Remarks</b>	* AT = solution treated N = Normalized or normalizing formed SR = stress relieved M = thermo mechanical treated AR = not treated			QT = quenched and tempered NT = normalized and tempered S = soft annealed A = solution treatment and quenched			a = material b = delivery condition c = article d = dimensions in tech. regulations e = weight f = No. of tech. regulation			<b>All 3.1 Test Certificates to be sent for TÜV Review</b>		

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					fro m	Up to	fro m	Up to																									
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	F 304/F304L, F316/316L F11/F12 F5 / F9 / F91	ASTM A182 ASTM A182 ASTM A182	A NT NT	} Flanges } Forged Bars } Flanges	DN 15 PN 6 TO 24"	DN 600 PN 160					} Dimensions acc. EN 1092 - 1	A PMA by the pressure equipment manufacturer (category I/II) respectively Notified Body (III/IV) is requested  																					
<p><b>Remarks</b></p> <table border="0"> <tr> <td>* AT = solution treated</td> <td>QT = quenched and tempered</td> <td>a = material</td> </tr> <tr> <td>N = Normalized or normalizing formed</td> <td>NT = normalized and tempered</td> <td>b = delivery condition</td> </tr> <tr> <td>SR = stress relieved</td> <td>S = soft annealed</td> <td>c = article</td> </tr> <tr> <td>M = thermo mechanical treated</td> <td>A = solution treatment and quenched</td> <td>d = dimensions in tech. regulations</td> </tr> <tr> <td>AR = not treated</td> <td></td> <td>e = weight</td> </tr> <tr> <td></td> <td></td> <td>f = No. of tech. regulation</td> </tr> </table>													* AT = solution treated	QT = quenched and tempered	a = material	N = Normalized or normalizing formed	NT = normalized and tempered	b = delivery condition	SR = stress relieved	S = soft annealed	c = article	M = thermo mechanical treated	A = solution treatment and quenched	d = dimensions in tech. regulations	AR = not treated		e = weight			f = No. of tech. regulation			
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Cur-	Materials-term Materials-No.	Material Specification	Delivery Cond.	Article Type of Product	Dimensions				Weight max		Technical Specifications Requirements Technical Regulations	Remarks
					Thickness mm		Ø mm		1= 2=kg	Re sul t		
					fro m	Up to	fro m	Up to	↓			
1	2	3	4	5	6a	6b	7a	7b	8a	8b	9	10
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	F 51 / F 22	ASTM A182	A		100 DIA	150# TO 2500#					Dimensions acc. EN 1092-1	A PMA by the pressure equipment manufacturer (category I/II) respectively Notified Body (III/IV) is requested
	A 105	ASTM	N									
	LF 2	A350	N			350 DIA						
	F 347 / 347H	ASTM A182	A									
	F 316L	SA 965	AT									
	F317 / 317L	ASTM A182	A									
	F316Ti	ASTM A182	A									
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Cur-	Materials-term Materials-No.	Material Specification	Delivery Cond. *	Article Type of Product	Dimensions Thickness mm	Weight max	Technical Specifications Requirements Technical Regulations	Remarks	
1	2	3	4	5	6a 6b 6c 6d 6e 6f	7a 7b 7c 7d 7e 7f 7g 7h 7i 7j 7k 7l 7m 7n 7o 7p 7q 7r 7s 7t 7u 7v 7w 7x 7y 7z 7aa 7ab 7ac 7ad 7ae 7af 7ag 7ah 7ai 7aj 7ak 7al 7am 7an 7ao 7ap 7aq 7ar 7as 7at 7au 7av 7aw 7ax 7ay 7az 7ba 7bb 7bc 7bd 7be 7bf 7bg 7bh 7bi 7bj 7bk 7bl 7bm 7bn 7bo 7bp 7bq 7br 7bs 7bt 7bu 7bv 7bw 7bx 7by 7bz 7ca 7cb 7cc 7cd 7ce 7cf 7cg 7ch 7ci 7cj 7ck 7cl 7cm 7cn 7co 7cp 7cq 7cr 7cs 7ct 7cu 7cv 7cw 7cx 7cy 7cz 7da 7db 7dc 7dd 7de 7df 7dg 7dh 7di 7dj 7dk 7dl 7dm 7dn 7do 7dp 7dq 7dr 7ds 7dt 7du 7dv 7dw 7dx 7dy 7dz 7ea 7eb 7ec 7ed 7ee 7ef 7eg 7eh 7ei 7ej 7ek 7el 7em 7en 7eo 7ep 7eq 7er 7es 7et 7eu 7ev 7ew 7ex 7ey 7ez 7fa 7fb 7fc 7fd 7fe 7ff 7fg 7fh 7fi 7fj 7fk 7fl 7fm 7fn 7fo 7fp 7fq 7fr 7fs 7ft 7fu 7fv 7fw 7fx 7fy 7fz 7ga 7gb 7gc 7gd 7ge 7gf 7gg 7gh 7gi 7gj 7gk 7gl 7gm 7gn 7go 7gp 7gq 7gr 7gs 7gt 7gu 7gv 7gw 7gx 7gy 7gz 7ha 7hb 7hc 7hd 7he 7hf 7hg 7hi 7hj 7hk 7hl 7hm 7hn 7ho 7hp 7hq 7hr 7hs 7ht 7hu 7hv 7hw 7hx 7hy 7hz 7ia 7ib 7ic 7id 7ie 7if 7ig 7ih 7ii 7ij 7ik 7il 7im 7in 7io 7ip 7iq 7ir 7is 7it 7iu 7iv 7iw 7ix 7iy 7iz 7ja 7jb 7jc 7jd 7je 7jf 7jg 7jh 7ji 7jj 7jk 7jl 7jm 7jn 7jo 7jp 7jq 7jr 7js 7jt 7ju 7jv 7jw 7jx 7jy 7jz 7ka 7kb 7kc 7kd 7ke 7kf 7kg 7kh 7ki 7kj 7kl 7km 7kn 7ko 7kp 7kq 7kr 7ks 7kt 7ku 7kv 7kw 7kx 7ky 7kz 7la 7lb 7lc 7ld 7le 7lf 7lg 7lh 7li 7lj 7lk 7ll 7lm 7ln 7lo 7lp 7lq 7lr 7ls 7lt 7lu 7lv 7lw 7lx 7ly 7lz 7ma 7mb 7mc 7md 7me 7mf 7mg 7mh 7mi 7mj 7mk 7ml 7mm 7mn 7mo 7mp 7mq 7mr 7ms 7mt 7mu 7mv 7mw 7mx 7my 7mz 7na 7nb 7nc 7nd 7ne 7nf 7ng 7nh 7ni 7nj 7nk 7nl 7nm 7no 7np 7nq 7nr 7ns 7nt 7nu 7nv 7nw 7nx 7ny 7nz 7oa 7ob 7oc 7od 7oe 7of 7og 7oh 7oi 7oj 7ok 7ol 7om 7on 7oo 7op 7oq 7or 7os 7ot 7ou 7ov 7ow 7ox 7oy 7oz 7pa 7pb 7pc 7pd 7pe 7pf 7pg 7ph 7pi 7pj 7pk 7pl 7pm 7pn 7po 7pp 7pq 7pr 7ps 7pt 7pu 7pv 7pw 7px 7py 7pz 7qa 7qb 7qc 7qd 7qe 7qf 7qg 7qh 7qi 7qj 7qk 7ql 7qm 7qn 7qo 7qp 7qq 7qr 7qs 7qt 7qu 7qv 7qw 7qx 7qy 7qz 7ra 7rb 7rc 7rd 7re 7rf 7rg 7rh 7ri 7rj 7rk 7rl 7rm 7rn 7ro 7rp 7rq 7rr 7rs 7rt 7ru 7rv 7rw 7rx 7ry 7rz 7sa 7sb 7sc 7sd 7se 7sf 7sg 7sh 7si 7sj 7sk 7sl 7sm 7sn 7so 7sp 7sq 7sr 7ss 7st 7su 7sv 7sw 7sx 7sy 7sz 7ta 7tb 7tc 7td 7te 7tf 7tg 7th 7ti 7tj 7tk 7tl 7tm 7tn 7to 7tp 7tq 7tr 7ts 7tu 7tv 7tw 7tx 7ty 7tz 7ua 7ub 7uc 7ud 7ue 7uf 7ug 7uh 7ui 7uj 7uk 7ul 7um 7un 7uo 7up 7uq 7ur 7us 7ut 7uu 7uv 7uw 7ux 7uy 7uz 7va 7vb 7vc 7vd 7ve 7vf 7vg 7vh 7vi 7vj 7vk 7vl 7vm 7vn 7vo 7vp 7vq 7vr 7vs 7vt 7vu 7vv 7vw 7vx 7vy 7vz 7wa 7wb 7wc 7wd 7we 7wf 7wg 7wh 7wi 7wj 7wk 7wl 7wm 7wn 7wo 7wp 7wq 7wr 7ws 7wt 7wu 7wv 7ww 7wx 7wy 7wz 7xa 7xb 7xc 7xd 7xe 7xf 7xg 7xh 7xi 7xj 7xk 7xl 7xm 7xn 7xo 7xp 7xq 7xr 7xs 7xt 7xu 7xv 7xw 7xx 7xy 7xz 7ya 7yb 7yc 7yd 7ye 7yf 7yg 7yh 7yi 7yj 7yk 7yl 7ym 7yn 7yo 7yp 7yq 7yr 7ys 7yt 7yu 7yv 7yw 7yx 7yy 7yz 7za 7zb 7zc 7zd 7ze 7zf 7zg 7zh 7zi 7zj 7zk 7zl 7zm 7zn 7zo 7zp 7zq 7zr 7zs 7zt 7zu 7zv 7zw 7zx 7zy 7zz	8a 8b 8c 8d 8e 8f 8g 8h 8i 8j 8k 8l 8m 8n 8o 8p 8q 8r 8s 8t 8u 8v 8w 8x 8y 8z 8aa 8ab 8ac 8ad 8ae 8af 8ag 8ah 8ai 8aj 8ak 8al 8am 8an 8ao 8ap 8aq 8ar 8as 8at 8au 8av 8aw 8ax 8ay 8az 8ba 8bb 8bc 8bd 8be 8bf 8bg 8bh 8bi 8bj 8bk 8bl 8bm 8bn 8bo 8bp 8bq 8br 8bs 8bt 8bu 8bv 8bw 8bx 8by 8bz 8ca 8cb 8cc 8cd 8ce 8cf 8cg 8ch 8ci 8cj 8ck 8cl 8cm 8cn 8co 8cp 8cq 8cr 8cs 8ct 8cu 8cv 8cw 8cx 8cy 8cz 8da 8db 8dc 8dd 8de 8df 8dg 8dh 8di 8dj 8dk 8dl 8dm 8dn 8do 8dp 8dq 8dr 8ds 8dt 8du 8dv 8dw 8dx 8dy 8dz 8ea 8eb 8ec 8ed 8ee 8ef 8eg 8eh 8ei 8ej 8ek 8el 8em 8en 8eo 8ep 8eq 8er 8es 8et 8eu 8ev 8ew 8ex 8ey 8ez 8fa 8fb 8fc 8fd 8fe 8ff 8fg 8fh 8fi 8fj 8fk 8fl 8fm 8fn 8fo 8fp 8fq 8fr 8fs 8ft 8fu 8fv 8fw 8fx 8fy 8fz 8ga 8gb 8gc 8gd 8ge 8gf 8gg 8gh 8gi 8gj 8gk 8gl 8gm 8gn 8go 8gp 8gq 8gr 8gs 8gt 8gu 8gv 8gw 8gx 8gy 8gz 8ha 8hb 8hc 8hd 8he 8hf 8hg 8hi 8hj 8hk 8hl 8hm 8hn 8ho 8hp 8hq 8hr 8hs 8ht 8hu 8hv 8hw 8hx 8hy 8hz 8ia 8ib 8ic 8id 8ie 8if 8ig 8ih 8ii 8ij 8ik 8il 8im 8in 8io 8ip 8iq 8ir 8is 8it 8iu 8iv 8iw 8ix 8iy 8iz 8ja 8jb 8jc 8jd 8je 8jf 8jg 8jh 8ji 8jj 8jk 8jl 8jm 8jn 8jo 8jp 8jq 8jr 8js 8jt 8ju 8jv 8jw 8jx 8jy 8jz 8ka 8kb 8kc 8kd 8ke 8kf 8kg 8kh 8ki 8kj 8kl 8km 8kn 8ko 8kp 8kq 8kr 8ks 8kt 8ku 8kv 8kw 8kx 8ky 8kz 8la 8lb 8lc 8ld 8le 8lf 8lg 8lh 8li 8lj 8lk 8ll 8lm 8ln 8lo 8lp 8lq 8lr 8ls 8lt 8lu 8lv 8lw 8lx 8ly 8lz 8ma 8mb 8mc 8md 8me 8mf 8mg 8mh 8mi 8mj 8mk 8ml 8mm 8mn 8mo 8mp 8mq 8mr 8ms 8mt 8mu 8mv 8mw 8mx 8my 8mz 8na 8nb 8nc 8nd 8ne 8nf 8ng 8nh 8ni 8nj 8nk 8nl 8nm 8no 8np 8nq 8nr 8ns 8nt 8nu 8nv 8nw 8nx 8ny 8nz 8oa 8ob 8oc 8od 8oe 8of 8og 8oh 8oi 8oj 8ok 8ol 8om 8on 8oo 8op 8oq 8or 8os 8ot 8ou 8ov 8ow 8ox 8oy 8oz 8pa 8pb 8pc 8pd 8pe 8pf 8pg 8ph 8pi 8pj 8pk 8pl 8pm 8pn 8po 8pp 8pq 8pr 8ps 8pt 8pu 8pv 8pw 8px 8py 8pz 8qa 8qb 8qc 8qd 8qe 8qf 8qg 8qh 8qi 8qj 8qk 8ql 8qm 8qn 8qo 8qp 8qq 8qr 8qs 8qt 8qu 8qv 8qw 8qx 8qy 8qz 8ra 8rb 8rc 8rd 8re 8rf 8rg 8rh 8ri 8rj 8rk 8rl 8rm 8rn 8ro 8rp 8rq 8rr 8rs 8rt 8ru 8rv 8rw 8rx 8ry 8rz 8sa 8sb 8sc 8sd 8se 8sf 8sg 8sh 8si 8sj 8sk 8sl 8sm 8sn 8so 8sp 8sq 8sr 8ss 8st 8su 8sv 8sw 8sx 8sy 8sz 8ta 8tb 8tc 8td 8te 8tf 8tg 8th 8ti 8tj 8tk 8tl 8tm 8tn 8to 8tp 8tq 8tr 8ts 8tu 8tv 8tw 8tx 8ty 8tz 8ua 8ub 8uc 8ud 8ue 8uf 8ug 8uh 8ui 8uj 8uk 8ul 8um 8un 8uo 8up 8uq 8ur 8us 8ut 8uu 8uv 8uw 8ux 8uy 8uz 8va 8vb 8vc 8vd 8ve 8vf 8vg 8vh 8vi 8vj 8vk 8vl 8vm 8vn 8vo 8vp 8vq 8vr 8vs 8vt 8vu 8vv 8vw 8vx 8vy 8vz 8wa 8wb 8wc 8wd 8we 8wf 8wg 8wh 8wi 8wj 8wk 8wl 8wm 8wn 8wo 8wp 8wq 8wr 8ws 8wt 8wu 8wv 8ww 8wx 8wy 8wz 8xa 8xb 8xc 8xd 8xe 8xf 8xg 8xh 8xi 8xj 8xk 8xl 8xm 8xn 8xo 8xp 8xq 8xr 8xs 8xt 8xu 8xv 8xw 8xx 8xy 8xz 8ya 8yb 8yc 8yd 8ye 8yf 8yg 8yh 8yi 8yj 8yk 8yl 8ym 8yn 8yo 8yp 8yq 8yr 8ys 8yt 8yu 8yv 8yw 8yx 8yy 8yz 8za 8zb 8zc 8zd 8ze 8zf 8zg 8zh 8zi 8zj 8zk 8zl 8zm 8zn 8zo 8zp 8zq 8zr 8zs 8zt 8zu 8zv 8zw 8zx 8zy 8zz	9	10
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	F304 / F304H F316 / 316H SA 266 GR.2 16Mo3 (1.5415) 11CrMo9-10(1.7383)	ASTM A182 ASTM A182 ASTM A 266 EN 10222 – 2 EN 10222 – 2	A A NT QT QT	Flanges Forged Bars Flanges	DN 15 PN 6 1/4" TO 24"	DN 600 PN 160	Dimensions acc. EN 1092-1	A PMA by the pressure equipment manufacturer (category I/II) respectively Notified Body (IIIV) is requested for ASME materials.	
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			fro m	Up to	fro m	Up to						
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UNS 6600, UNS 6625, UNS 4400, UNS 8825	ASTM B564	AR	Flanges	DN 15 PN 6 1/4" TO 24"	DN 600	Forged Bars	Flanges	Dimensions acc. EN 1092-1	A PMA by the pressure equipment manufacturer (category III) respectively Notified Body (II/IV) is requested for ASME materials.			
1.4401	EN10222-5	A	Tube Fittings	-	1/8	1	Machining On;ly					
14301	EN10222-5	A	Pipe Fittings	-	1/8	1	Machining On;ly					
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