

Overview of available materials for Europe

Part No.	Description		Material variant									
			G	GB	GC	GI	B	S	SB	SC	C	
102	Volute casing	Grey cast iron EN-GJL-250/ A 48 CL 35B	A1	A1	A1							
		Bronze CC480K-GS/ B30 C90700					A1					
		Nodular cast iron EN-GJS-400-15/ A536 GR 60-40-18						A1	A1	A1		
		Stainless steel 1.4408/ A743 Gr CF8 M										A1
161	Casing cover, conical	Grey cast iron EN-GJL-250/ A 48 CL 35B	A1	A1	A1							
		Bronze CC480K-GS/ B30 C90700					A1					
		Nodular cast iron EN-GJS-400-15/ A536 GR 60-40-18						A1	A1	A1		
		Stainless steel 1.4408/ A743 Gr CF8 M										A1
161	Casing cover, cylindrical	Grey cast iron EN-GJL-250/ A 48 CL 35B	A2	A2	A2							
		Stainless steel 1.4408/ A743 Gr CF8 M										A2
		Bronze CC480K-GS/ B30 C90700					A2					
210	Shaft	Tempered steel C45+N	A1	A1	A1			A1	A1	A1		
		Chrome steel 1.4057+QT800	A2	A2	A2			A2	A2	A2		
		Duplex stainless steel 1.4462/ UNS S31803	A2	A2	A2		A1	A2	A2	A2	A1	
230	Impeller	Grey cast iron EN-GJL-250/ A 48 CL 35B	A1					A1				
		Bronze CC480K-GS/ B30 C90700		A1			A1		A1			
		Stainless steel 1.4408/ A743 Gr CF8 M			A1						A1	A1
330	Bearing bracket	Grey cast iron EN-GJL-250/ A 48 CL 35B	A1	A1	A1		A1	A1	A1	A1	A1	
400	Sealing elements	DPAF, asbestos-free	A1	A1	A1		A1	A1	A1	A1	A1	
502.01	Casing wear ring, suction side	Grey cast iron EN-GJL-250/ CI	A1	A1	A1			A1	A1	A1		
		Stainless steel (CrNiMoST) <sup>16)</sup>	A2		A2							A2
		Bronze CC495K-GS		A2			A1		A2			
502.02	Casing wear ring, discharge side	Grey cast iron EN-GJL-250/ CI <sup>16)</sup>	A1	A1	A1			A1	A1	A1		
		Stainless steel (CrNiMoST)	A2		A2							A2
		Bronze CC495K-GS <sup>16)</sup>		A2			A1		A2			
523	Shaft sleeve <sup>17)</sup>	Stainless steel (CrNiMoST)	A1	A1	A1		A1	A1	A1	A1	A1	
524	Shaft protecting sleeve <sup>18)</sup>	Stainless steel (CrNiMoST) <sup>16)</sup>					A1				A1	
		Chrome steel 1.4122HV500+80	A1	A1	A1							
902	Studs	Steel 8.8	A1	A1	A1			A1	A1	A1		
		A4-70/ A193 Gr B8M CL2	A2	A2	A2		A1	A2	A2	A2	A1	
903	Plug	Steel	A1	A1	A1			A1	A1	A1		
		CC 493K-GS					A1					
		A4/ AISI 316	A2	A2	A2			A2	A2	A2	A1	
920	Nut	8+A2A/ 8+B633 SC1 TP3	A1	A1	A1			A1	A1	A1		
		A4/ AISI 316	A2	A2	A2		A1	A2	A2	A2	A1	
920.95	Impeller nut	A4/ AISI 316	A2	A1	A1		A1	A2	A1	A1	A1	
		Steel 8	A1					A1				

Overview of materials available for India

Part No.	Description		Material variant									
			G	GB	GC	GI	B	S	SB	SC	C	
102	Volute casing	Grey cast iron JL1040 / A 48 CL 35B	B1	B1	B1	B1						
230	Impeller	Grey cast iron JL1040 / A 48 CL 35B	B1									
		Bronze CC480K-GS/ B30 C90700		B1								
		Bronze IS318 LTB2				B1						
		Stainless steel 1.4408 / A743 Gr CF8 M			B1							
161	Casing cover, conical	Grey cast iron JL 1040 / A 48 CL 35B	B2	B2	B2	B2						
161	Casing cover, cylindrical	Grey cast iron JL 1040 / A 48 CL 35B	B1	B1	B1	B1						
210	Shaft	IS 5517 45C8	B1	B1	B1	B1						
		A276 TP 410 COND H	B2	B2	B2	B2						
502.01	Casing wear ring, suction side	Grey cast iron JL 1040 / A 48 CL 35B	B1									
		Bronze IS318 LTB4		B1		B1						
		Stainless steel (CrNiMoST) <sup>19)</sup>			B1							
502.02	Casing wear ring, discharge side	Grey cast iron JL 1040 / A 48 CL 35B	B1									
		Bronze IS318 LTB4		B1		B1						
		Stainless steel (CrNiMoST) <sup>19)</sup>			B1							
523	Shaft sleeve <sup>17)</sup>	Stainless steel (CrNiMoST) <sup>19)</sup>	B1	B1	B1	B1						
524	Shaft protecting sleeve <sup>18)</sup>	A276 TP 410 COND H	B1	B1	B1	B1						
920.95	Impeller nut	A4/ AISI 316	B1	B1	B1	B1						
330	Bearing bracket	Grey cast iron JL1040 / A 48 CL 35B	B1	B1	B1	B1						
400	Sealing elements	DPAF, asbestos-free	B1	B1	B1	B1						
		CrNi steel / carbon CrNi graphite 1F	B2	B2	B2	B2						
902	Studs	Steel 8.8	B1	B1	B1	B1						
920	Nut	8+A2A/ 8+B633 SC1 TP3	B1	B1	B1	B1						
903	Plug	Steel	B1	B1	B1	B1						

Overview of materials available for South Africa

Part No.	Description		Material variant								
			G	GB	GC	GI	B	S	SB	SC	C
102	Volute casing	Grey cast iron JL1040 / A 48 CL 35B	C1	C1	C1						
161	Casing cover, conical	Stainless steel 1.4408 / A743 Gr CF8 M									C1
		Grey cast iron JL1040 / A 48 CL 35B	C1	C1	C1						
161	Casing cover, cylindrical	Stainless steel 1.4408/ A743 Gr CF8 M									C1
		Grey cast iron JL1040 / A 48 CL 35B	C1	C1	C1						
210	Shaft	Tempered steel C45+N	C1	C1	C1						
		A276 Type 316	C2	C2	C2						C1
		Chrome steel 1.4057+QT800	C2	C2	C2						
230	Impeller	Grey cast iron JL1040 / A 48 CL 35B	C1								
		Bronze CC480K-GS/ B30 C90700		C1							
		Stainless steel 1.4408 / A743 Gr CF8 M			C1						C1
330	Bearing bracket	Grey cast iron JL1040 / A 48 CL 35B	C1	C1	C1					C1	
331	Bearing pedestal	Grey cast iron JL1040 / A 48 CL 35B	C1	C1	C1						
400	Sealing elements	KLINGERSIL C4243	C1	C1	C1					C1	
502.01	Casing wear ring, suction side	Grey cast iron JL1040 / A 48 CL 35B	C1	C1	C1						
		Stainless steel (CrNiMoST)			C2						C2
		Bronze CC495K-GS		C2							
502.02	Casing wear ring, discharge side	Grey cast iron JL1040 / A 48 CL 35B	C1	C1	C1						
		Stainless steel (CrNiMoST)			C2						C2
		Bronze CC495K-GS		C2							
523	Shaft sleeve <sup>17)</sup>	Stainless steel (CrNiMoST)	C1	C1	C1					C1	
524	Shaft protecting sleeve <sup>18)</sup>	Stainless steel (CrNiMoST)									C1
		Chrome steel 1.4122HV500+80	C1	C1	C1						
902	Studs	Steel 8.8	C1	C1	C1						
		A4-70/A193 GR B8M CL2	C2	C2	C2						C1
903	Plug	Steel	C1	C1	C1						
		A4/AISI 316	C2	C2	C2						C1
920	Nut	8+A2A/ 8+B633 SC1 TP3	C1	C1	C1						
		A4/ AISI 316	C2	C2	C2						C1
920.95	Impeller nut	A4/ AISI 316	C2	C2	C1						C1
		Steel 8	C1								

Overview of available materials for China

Part No.	Description		Material variant								
			G	GB	GC	GI	B	S	SB	SC	C
102	Volute casing	Grey cast iron JL1040 / A 48 CL 35B	D1	D1	D1						
		Stainless steel 1.4408 / A743 Gr CF8 M									D1
161	Casing cover, conical	Grey cast iron JL1040 / A 48 CL 35B	D1	D1	D1						D1
		Stainless steel 1.4408/ A743 Gr CF8 M									
210	Shaft	Tempered steel C45+N	D1	D1	D1						
		Duplex stainless steel 1.4462/ UNS S31803	D2	D2	D2						D1
		Chrome steel 1.4057+QT800	D2	D2	D2						
230	Impeller	Grey cast iron JL1040 / A 48 CL 35B	D1								
		Stainless steel 1.4408 / A743 Gr CF8 M			D1						D1
330	Bearing bracket	Grey cast iron JL1040 / A 48 CL 35B	D1	D1	D1					D1	
400	Sealing elements	DPAF, asbestos-free	D1	D1	D1					D1	
502.01	Casing wear ring, suction side	Grey cast iron JL1040 / A 48 CL 35B	D1	D1	D1						
		Stainless steel (CrNiMoST)	D2	D2	D2						D2
502.02	Casing wear ring, discharge side	Grey cast iron JL1040 / A 48 CL 35B	D1	D1	D1						
		Stainless steel (CrNiMoST)	D2	D2	D2						D2
523	Shaft sleeve <sup>17)</sup>	Stainless steel (CrNiMoST)	D1	D1	D1					D1	
902	Studs	Steel 8.8	D1	D1	D1						
		A4-70/A193 GR B8M CL2	D2	D2	D2						D1
903	Plug	Steel	D1	D1	D1						
		A4/ AISI 316	D2	D2	D2						D1
920	Nut	8+A2A/ 8+B633 SC1 TP3	D1	D1	D1						
		A4/ AISI 316	D2	D2	D2						D1
920.95	Impeller nut	A4/ AISI 316	D2	D2	D1						D1
		Steel 8	D1	D1							

<sup>16)</sup> Material group CRNIMO ST (WSZ 7605). Possible materials: 1.4401, 1.4404; 1.4408, 1.4571; AISI 316; AISI 316Ti; A743 GR CF8M; A479 TYPE 316L

<sup>17)</sup> For pump sets with mechanical seal

<sup>18)</sup> Pump sets with gland packing

<sup>19)</sup> Material group CRNIMO ST (WSZ 7605). Possible materials: 1.4401, 1.4404; 1.4408, 1.4571, AISI 316, AISI 316Ti, A743 GR CF8M, A479 TYPE 316L