

ORIC

ORIC

ITALIANA S.R.L.

SUPERALLOYS

ORIC ITALIANA S.r.l.

Via Dell'Industria, 4 Zona Industriale
29015 Castel San Giovanni - Piacenza - Italy
tel. +39.0523.882498 - fax +39.0523.882111
www.oric.it - info@oric.it

WELDING PRODUCTS



PLAIN ROD - ELECTRODE - WIRE

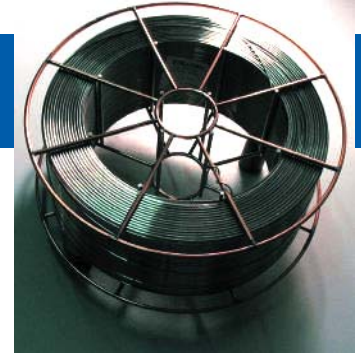
COBALT STELLITE	SPECIFICATION				ANALYSIS								
	GRADE	AWS	AMS	HARDNESS HRc	Co	C	Cr	Ni	Mo	Fe	Si	Mn	W
					%	%	%	%	%	%	%	%	%
371	1	CoCr-C		51-57	BAL	2-3	26-33	3	1	3	2	1	11-14
386	6	CoCr-A	5373 / 5387	38-42	BAL	0,9-1,4	26-32	3	1	3	2	1	3-6
372	12	CoCr-B	7238	47-51	BAL	1,2-1,7	26-32	3	1	3	2	1	7-9,5
370	20			54-59	BAL	2,5	33	3	1	3	2	1	18
388	21	CoCr-E	5385	30-37	BAL	0,15-0,45	25-30	1,5-4	4,5-7	3	1,5	1,5	0,5
382	25		5537 / 5796	21-30	BAL	0,05-0,15	19-21	9-11	1	3	0,4	2	14-16
377	F	CoCr-F		40-46	BAL	1,5-2	24-27	21-24	1	3	1,5	1	11-13

NICKEL	SPECIFICATION		ANALYSIS														
	AWS	UNS	Ni	Cr	Mo	Mn	Si	Cu	Fe	Al	C	Co	Ti	W	Nb	P	S
			%	%	%	%	%	%	%	%	%	%	%	%	%	%	%
200	Ni-1	N02061	≥ 93			1	0,75	0,25	1	1,5	0,15		2-3,5			0,03	0,015
400	NiCu-7	N04060	62 - 69			4	1,25	BAL	2,5	1,25	0,15		1,5-3			0,02	0,015
600	NiCr-3	N06082	≥ 67	18 - 22		2,5-3,5	0,5	0,5	3		0,1		0,75	2-3		0,03	0,015
617	NiCrCoMo-1	N06617	BAL	20-24	8-10	1	1	0,5	3	0,8-1,5	0,05-0,15	10-15	0,6			0,03	0,015
625	NiCrMo-3	N06625	≥ 58	20-23	8-10	0,5	0,5	0,5	5	0,4	0,1		0,4		3,15-4,15	0,02	0,015
718	NiFeCr-2	N07718	50-55	17-21	2,8-3,3	0,35	0,35	0,3	BAL	0,2-0,8	0,08		0,65-1,15		4,75-5,5	0,015	0,015
825	NiFeCr-1	N08065	38-46	19,5-23,5	2,5-3,5	1	0,5	1,5-3	≥ 22	0,2	0,05		0,6-1,2			0,03	0,03
C 276	NiCrMo-4	N10276	BAL	14,5-16,5	15-17	1	0,08	0,5	4-7		0,02	2,5		3-4,5		0,04	0,03
X	NiCrMo-2	N06002	BAL	20,5-23	8-10	1	1	0,5	17-20		0,05-0,15	0,5-2,5		0,2-1		0,04	0,03

TITANIUM	SPECIFICATION			ANALYSIS								
	AWS	UNS	HARDNESS HB	Ti	C	Fe	N	H	O	V	Al	Pd
				%	%	%	%	%	%	%	%	%
Grade 1	ERTI-1	R50100	70	BAL	0,03	0,08	0,012	0,005	0,03-0,1			
Grade 2	ERTI-2	R50120	80	BAL	0,03	0,12	0,015	0,008	0,08-0,16			
Grade 3	ERTI-3	R50125	90	BAL	0,03	0,16	0,02	0,008	0,13-0,2			
Grade 4	ERTI-4	R50130	100	BAL	0,03	0,25	0,025	0,008	0,18-0,32			
Grade 5	ERTI-5	R56400	340	BAL	0,05	0,22	0,03	0,015	0,12-0,2	3,5-4,5	5,5-6,7	
Grade 7	ERTI-7	R52401	80	BAL	0,03	0,12	0,015	0,008	0,08-0,16			0,12-0,25

ZINC	SPECIFICHE			ANALISI						
	ISO	DIN	HARDNESS HV	Zn	Cd	Fe	Cu	Sn	Al	Pb
				%	%	%	%	%	%	%
Zn 99,99	759	8566	30 - 55	BAL	0,003	0,002	0,001	0,001	0,001	0,003

WELDING PRODUCTS



PLAIN ROD - ELECTRODE - WIRE

TUNGSTEN CARBIDE	DESCRIPTION		
	FORM	SIZE	DESCRIPTION
TUNGSTUB	Plain rod	Ø 3-6,4	Low carbon steel-nickel plated fullfilled with fused Tungsten Carbide (W2C WC) corners of different selected size.
TUNGSARC	Electrode	Ø 4-6	Tungstsub coverei for electrical deposition.
FLEXODUR	Flexible rod	Ø 4-8	Flexible rods obtained by extrusion on a pure nickel core of fused tungsten carbides with some alloying elements.
TUNGSPAD	Plain rod	Ø12/15x500	Sintered tungsten carbide pellets of selected size in a mallechort matrix with a lower melting point.

AISI	SPECIFICATION		ANALYSIS										
	UNS	AWS	C	Cr	Mn	Ni	P	Si	S	Fe	Mo	N	Cu
			%	%	%	%	%	%	%	%	%	%	%
308L	S30883	ER308L	0,03	19,5-22	1-2,5	9-11	0,03	0,3-0,65	0,03	BAL	0,75		0,75
309L	S30983	ER309L	0,03	23-25	1-2,5	12-14	0,03	0,3-0,65	0,03	BAL	0,75		0,75
310	S31080	ER310	0,08-0,15	25-28	1-2,5	20-22,5	0,03	0,3-0,65	0,03	BAL	0,75		0,75
312	S31380	ER312	0,15	28-32	1-2,5	8-10,5	0,03	0,3-0,65	0,03	BAL	0,75		0,75
316L	S31683	ER316L	0,03	18-20	1-2,5	11-14	0,03	0,3-0,65	0,03	BAL	2-3		0,75
317L	S31783	ER317L	0,03	18,5-20,5	1-2,5	13-15	0,03	0,3-0,65	0,03	BAL	3-4		0,75
347	S34780	ER347	0,08	19-21,5	1-2,5	9-11	0,03	0,3-0,65	0,03	BAL	0,75		0,75
904L	N08904	ER385	0,025	19,5-21,5	1-2,5	24-26	0,02	0,5	0,03	BAL	4,2-5,2		1,2-2
DUPLEX	S39209	ER2209	0,03	21,5-23,5	0,5-2	7,5-9,5	0,03	0,9	0,03	BAL	2,5-3,5	0,08-0,2	0,75
SUPERDUPLEX	S39553	ER2553	0,04	24-27	1,5	4,5-6,5	0,04	1	0,03	BAL	2,9-3,9	0,1-0,25	1,5-2,5

ALLUMINIUM	SPECIFICATION			ANALYSIS									
	AA USA	DIN	MELTING POINT °C	Al	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Be	Si
				%	%	%	%	%	%	%	%	%	%
Al 99,5	1050	3.0259	647 - 658	≥ 99,5	0,4	0,05	0,05	0,05		0,07	0,03	0,0008	0,25
Al Mg 5	5356	3.3556	571 - 633	BAL	0,4	0,1	0,05-0,2	4,5-5,5	0,05-0,2	0,1	0,06-0,2	0,0008	0,25
Al Si 5	4043	3.2245	573 - 632	BAL	0,6	0,05	0,05	0,05		0,1	0,15	0,0008	4,5-6

STELLORIC[®] is a registered trademark of ORIC group that produces in a range of different forms and size:

PLAIN ROD - ELECTRODE - CORED WIRE - SOLID WIRE

PRODUCTS	PROCESSES	AVAILABLE DIAMETERS
Plain rod	Oxi - acetylene - TIG	dia. 0,8 - 1,0 - 1,2 - 1,6 - 2,4 - 3,2 - 4,0 - 5,0 - 6,4 - 8,0 mm
Electrode	MMA	dia. 2,4 - 3,2 - 4,0 - 5,0 - 6,4 mm
Wire	MIG - Sub - Arc	dia. 0,8 - 1,0 - 1,2 - 1,6 - 2,4 - 3,2 - 4,0 mm

WELDING PRODUCTS



POWDER

COBALT STELLITE	SPECIFICATION				ANALYSIS								
	GRADE	AWS	AMS	HARDNESS HRc	Co	C	Cr	Ni	Mo	Fe	Si	Mn	W
					%	%	%	%	%	%	%	%	%
371	1	CoCr-C		51 - 57	BAL	2-3	26-33	3	1	3	2	1	11-14
386	6	CoCr-A	5373 / 5387	38 - 42	BAL	0,9-1,4	26-32	3	1	3	2	1	3-6
372	12	CoCr-B	7238	47 - 51	BAL	1,2-1,7	26-32	3	1	3	2	1	7-9,5
370	20			54 - 59	BAL	2,5	33	3	1	3	2	1	18
388	21	CoCr-E	5385	30 - 37	BAL	0,15-0,45	25-30	1,5-4	4,5-7	3	1,5	1,5	0,5
382	25		5537 / 5796	21 - 30	BAL	0,05-0,15	19-21	9-11	1	3	0,4	2	14-16
377	F	CoCr-F		40 - 46	BAL	1,5-2	24-27	21-24	1	3	1,5	1	11-13

NICKEL	SPECIFICATION		ANALYSIS										
	HARDNESS HRc	MELTING POINT °C	Ni	C	Si	Cr	B	Fe	Mo	Mn	W	Nb	Co
			%	%	%	%	%	%	%	%	%	%	%
1347	16 - 21	980 - 1040	BAL	≤ 0,05	2,3	≤ 0,5	0,8	≤ 0,5					
1351	28 - 33	990 - 1040	BAL	≤ 0,05	3,5	≤ 0,5	1	≤ 0,5					
1354	35 - 40	1000 - 1150	BAL	0,4	3	10	2,1	0,5					
1355	45 - 50	970 - 1070	BAL	0,5	3,8	12	2,3	3,8					
1357	56 - 62	950 - 1020	BAL	0,7	4,5	15	3	4					
1340 (C276)	25 - 30	1270 - 1310	BAL	0,02	0,08	14,5-16,5		4-7	15-17	1	3-4,5		2,5
625	20 - 25	1240 - 1300	BAL	0,1	0,5	20-23		5	8-10	0,5		3,15-4,15	

TUNGSTEN CARBIDE	COMPOSITION		
	MATRIX NICKEL	TUNGSTEN CARBIDE	CARBIDE %
1361	1357	W2C - WC	30
1362	1357	W2C - WC	40
1363	1357	W2C - WC	50
1365	1357	WC - Co	40
1366	1357	WC - Co	50
1367	1357	WC - Co	60

POWDER AVAILABLE GRAIN SIZE: PTA - SF - PW (micron)

COBALT - NICKEL									
F0	F1	F2	F3	N	S	G	G1	G2	G3
20 - 53	20 - 75	20 - 90	20 - 106	20 - 125	38 - 106	45 - 125	53 - 150	60 - 180	63 - 125

TUNGSTEN CARBIDE						
SF	F4	F5	S	S1	S2	S3
0 - 44	10 - 44	20 - 63	38 - 106	38 - 75	44 - 90	75 - 106

ROUND BAR PRODUCTS



COBALT STELLITE: WAX CASTING Ø 10 ÷ 40 Lg: 192 SAND CASTING Ø 15 ÷ 100 Lg: 255

COBALT STELLITE	SPECIFICATION				ANALYSIS								
	GRADE	UNS	AMS	HARDNESS HRc	Co	C	Cr	Ni	Mo	Fe	Si	Mn	W
					%	%	%	%	%	%	%	%	%
371	1	R30001		51-57	BAL	2-3	26-33	3	1	3	2	1	11-14
373	3	R30103		51-55	BAL	2,3	30						13
384	4	R30404		45-49	BAL	1	32						14
386	6	R30006	5373 / 5387	38-42	BAL	00,9-1,4	26-32	3	1	3	2	1	3-6
372	12	R30012	7238	47-51	BAL	1,2-1,7	26-32	3	1	3	2	1	7-9,5
370	20			54-59	BAL	2,5	33						18
388	21	R30021	5385	30-37	BAL	0,15-0,45	25-30	1,5-4	4,5-7	3	1,5	1,5	0,5
382	25	R30605	5537 / 5796	21-30	BAL	0,05-0,15	19-21	9-11		3	0,4	2	14-16
400	100			57-62	BAL	2	34						19
377	F	R30002		40-46	BAL	1,5-2	24-27	21-24	1	3	1,5	1	11-13

NICKEL : LAMINATE - FORGED Ø 10 ÷ 250 Lg: 4000 ÷ 6000

NICKEL	SPECIFICATION		ANALYSIS											
	UNS	Ni	Cr	Mo	Mn	Si	Cu	Fe	Al	C	Co	Ti	W	Nb
200	N02200	≥99			0,35	0,35	0,25	0,4		0,15				
400	N04400	≥63			2	0,5	28-34	2,5		0,3				
K500	N05500	≥63			1,5	0,5	27-33	2	2,3-3,15	0,18		0,35-0,85		
600	N06600	≥72	14-17		1	0,5	0,5	6-10		0,15				
617	N06617	≥44,5	20-24	8-10	1	1	0,5	3	0,8-1,5	0,05-0,15	10-15	0,6		
625	N06625	≥58	20-23	8-10	0,5	0,5		5	0,4	0,1	1	0,4		3,15-4,15
718	N07718	50-55	17-21	2,8-3,3	0,35	0,35	0,3	BAL	0,2-0,8	0,08	1	0,65-1,15		4,75-5,5
X750	N07750	≥70	14-17		1	0,5	0,5	5-9	0,4-1	0,08	1	2,25-2,75		0,7-1,2
800HT	N08811	30-35	19-23		1,5	1	0,75	≥39,5	0,15-0,6	0,06-0,1		0,15-0,6		
825	N08825	38-46	19,5-23,5	2,5-3,5	1	0,5	1,5-3	≥22	0,2	0,05		0,6-1,2		
C276	N10276	BAL	14,5-16,5	15-17	1	0,08		4-7		0,01	2,5		3-4,5	
B3	N10675	≥65	1-3	27-32	3	0,1	0,2	1-3	0,5	0,01	3	0,2	3	0,2
X	N06002	BAL	20,5-23	8-10	1	1		17-20		0,05-0,15	0,5-2,5		0,2-1	

TITANIUM : LAMINATE - FORGED Ø 10 ÷ 250 Lg: 4000 ÷ 6000

TITANIUM	SPECIFICATION		ANALYSIS									
	UNS	Ti	C	H	Fe	N	O	Pd	Al	V		
											%	%
Grade 1	R50250	BAL	0,08	0,015	0,2	0,03	0,18					
Grade 2	R50400	BAL	0,08	0,015	0,3	0,03	0,25					
Grade 3	R50550	BAL	0,08	0,015	0,3	0,05	0,35					
Grade 4	R50700	BAL	0,08	0,015	0,5	0,05	0,4					
Grade 5	R56400	BAL	0,08	0,015	0,4	0,05	0,2			5,5-6,75	3,5-4,5	
Grade 7	R52400	BAL	0,08	0,015	0,3	0,03	0,25	0,12-0,25				

AISI : LAMINATE - FORGED Ø 10 ÷ 250 Lg: 4000 ÷ 6000

AISI	SPECIFICATION		ANALYSIS										
	UNS	C	Cr	Ni	Mn	Si	P	S	Fe	Mo	N	Ti	Cu
304L	S30403	0,03	18-20	8-12	2	1	0,045	0,03	BAL				
310	S31000	0,25	24-26	19-22	2	1,5	0,045	0,03	BAL				
316L	S31603	0,03	16-18	10-14	2	1	0,045	0,03	BAL				
317	S31700	0,08	18-20	11-15	2	1	0,045	0,03	BAL	2-3			
321	S32100	0,08	17-19	9-12	2	1	0,045	0,03	BAL	3-4	0,1		
347	S34700	0,08	17-19	9-12	2	1	0,045	0,03	BAL			0,7	
410	S41000	0,08-0,15	11,5-13,5		1	1	0,04	0,03	BAL				
420	S42000	≥ 0,15	12-14		1	1	0,04	0,03	BAL				
430	S43000	0,12	16-18		1	1	0,04	0,03	BAL				
630	S17400	0,07	15-17,5	3-5	1	1	0,04	0,03	BAL				3-5
254	S31254	0,02	19,5-20,5	17,5-18,5	1	0,8	0,03	0,01	BAL	6-6,5	0,18-0,22		0,5-1
DUPLEX	S31803	0,03	21-23	4,5-6,5	2	1	0,03	0,02	BAL	2-2,53-5	0,08-0,2		
SUPERDUPLEX	S32750	0,03	24-26	6-8	1,2	0,8	0,035	0,02	BAL	3-5	0,24-0,32		0,5
SUPERDUPLEX	S32760	0,03	24-26	6-8	1	1	0,03	0,01	BAL	3-4	0,2-0,3		0,5-1

CASTINGS



- WAX CASTING
- SAND CASTING
- CENTRIFUGAL CASTING
- SINTERING

COBALT STELLITE	SPECIFICATION				ANALYSIS									
	GRADE	UNS	AMS	HARDNESS HRC	Co	C	Cr	Ni	Mo	Fe	Si	Mn	W	
					%	%	%	%	%	%	%	%	%	
371	1	R30001		51-57	BAL	2-3	26-33	3	1	3	2	1	11-14	
373	3	R30103		51-55	BAL	2,3	30						13	
384	4	R30404		45-49	BAL	1	32						14	
386	6	R30006	5373 / 5387	38-42	BAL	0,9-1,4	26-32	3	1	3	2	1	3-6	
372	12	R30012	7238	47-51	BAL	1,2-1,7	26-32	3	1	3	2	1	7-9,5	
370	20			54-59	BAL	2,5	33						18	
388	21	R30021	5385	30-37	BAL	0,15-0,45	25-30	1,5-4	4,5-7	3	1,5	1,5	0,5	
382	25	R30605	5537 / 5796	21-30	BAL	0,05-0,15	19-21	9-11		3	0,4	2	14-16	
400	100			57-62	BAL	2	34						19	
377	F	R30002		40-46	BAL	1,5-2	24-27	21-24	1	3	1,5	1	11-13	

NICKEL	SPECIFICATION		ANALYSIS													
	UNS	HARDNESS HRC	Ni	Fe	Co	W	Cr	C	Mo	B	Si	Nb	Cu	Ti	Al	Mn
			%	%	%	%	%	%	%	%	%	%	%	%	%	%
341		38 - 42	BAL	20	12	6	20	2,5								
342		39 - 45	BAL	5	10	14	30	2,5								
34 B		18 - 22	BAL	5				0,1	28							
34 C		26 - 34	BAL	5		5	16	0,1	16							
353		35 - 40	BAL	2,5			10	0,5		2	2,3					
355		45 - 50	BAL	4			12	0,7		2,5	4					
397		40 - 46	BAL	< 1			15	≤ 0,08	32		3					
400	N04400		≥ 63	2,5				0,3			0,5		28-34			2
625	N06625		≥ 58	5	1		20-23	0,1	8-10		0,5	3,15-4,15		0,4	0,4	0,5
718	N07718		50-55	BAL	1		17-21	0,08	2,8-3,3		0,35	4,75-5,5	0,3	0,65-1,15	0,2-0,8	0,35
C276	N10276		BAL	4-7	2,5	3-4,5	14,5-16,5	0,01	15-17		0,08					1

TUNGSTEN CARBIDE	SPECIFICATION				ANALYSIS		
	ISO	HADNESS		DENSITY kg/dm ³	W	Co	OTHERS
		HV	HRA		%	%	%
ST 01	K01	1800	93	15,05	BAL	4,5	3
ST 05	K05	1750	92,8	15	BAL	5	0,5
ST 10	K10	1700	92,5	14,95	BAL	5,5	0,5
ST 15	K15	1600	91,8	14,45	BAL	10	0,5
ST 20	K20	1580	91,6	14,85	BAL	6,5	0,5
ST 30	K30	1450	90,7	14,65	BAL	8,5	0,5
ST 40	K40	1295	89,5	14,3	BAL	12	1
ST 45	K45	1210	88,4	14,05	BAL	15	0,55
ST 50	K50	1100	87	14	BAL	15	0,5
STG 30	G30	1070	86,7	14,05	BAL	15	0,5
STG 40	G40	910	84,8	13,6	BAL	20	0,5
STG 50	G50	810	83,2	13,1	BAL	25	0,5
ST 37	SPECIALE	1370	90,2	14,6	BAL	0,5	8,5 (Nickel)

CAST PARTS



BUSHES

The low coefficient of friction and resistance to galling of STELLORIC alloys, particularly when high temperatures are involved, make them extremely suitable for certain bearing applications. Guide bushes are employed in valves handling high temperature - high pressure steam. Petroleum products and corrosive chemicals. Oil grooves can be provided in bushes used as bearings for gear pump spindles. Plain or flanged sleeves are used to protect pump shafts from the wear encountered in packing glands. Resistance to corrosion by molten metals is required in diecasting, where solid STELLORIC alloy sleeves are fitted to the chamber and work in conjunction with either solid or STELLORIC alloy hardfaced plungers to handle tin and zinc base alloys. Ports are provided in the sleeve to suit the design of chamber used. Bushes and sleeves of all types are made to customers' requirements by casting and grinding to size.



GLASS PLUNGERS

Moulds and plungers manufactured in STELLORIC 44 or STELLORIC 372 specially developed alloys for the glass industry, are now an essential part of the manufacturing process of glass bottles. Those alloys have repeatedly proved to be superior when compared with cast iron, and it can offer a life increase of more than ten times. In addition to the reduction in down time, STELLORIC 44 and STELLORIC 372 achieves and maintains a better surface finish, reducing the incident of sticking and of marking the glass. STELLORIC alloys are used in many other areas where their improved resistance to wear and corrosion from the hot glass help to maintain production and increase output.



KNIVES

Knives made in STELLORIC alloys have shown a significant life increase over steel, provided the included angle of the cutting edge is greater than 20°C. Knives of various design are made for cutting corded rubber sheet on the bases for the manufacture of automobile tires. In the cutting of artificial fibres, corrosive liquid may be involved and STELLORIC knives are extensively used on the GRU-GRU machine under such conditions. The use of STELLORIC alloys has also been developed for glipper knives fitted to gripped carpet loomg and shows a pronounced increase in life over conventional steel knives, providing a more uniform product.



VALVES and SEATS

Cast insert are made for a variety of designs of valves, handling a wide range of corrosive, erosive and abrasive media. Seats insert for internal combustion and compression ignition engines must withstand erosion by hot gases, corrosion by the break-down products of fuel additives and the wear due to impact and rotation of the valve. The choice of alloy depends on engine design but is more frequently STELLORIC 386. The homogeniser valves used in the production of ice cream, sauces, soups, etc., must be resistant to erosion, corrosion and abrasion. These are manufactured of STELLORIC 370 - 373 and give many times the life of stainless steel. The accurate control of flow is essential to the continuous operation of modern chemical and petroleum plant.

In industry today, wear is perhaps one of the major problems when endeavouring to improve the efficiency of equipment in order to reduce the cost of manufactured products. Since wear is a complex problem due to the many unknown factors behind its origin and development, an extensive range of special alloys is required to guarantee the best possible protection against the types of wear most frequently encountered.

STELLORIC alloys offer such a range since the different contents of their constituents have been specially developed for this purpose.

COBALT

- It forms the base metal of alloys and improves their properties at high temperatures.

NICKEL

- It is exceptionally resistant to corrosion and imparts this property when alloyed with other metals.
- With Molybdenum (>20%) it forms an alloy having maximum resistance to various types of corrosion, particularly in neutral or reducing media.

TUNGSTEN

- In construction with Chromium and Cobalt, and when combined with Carbon, it forms complex carbides of extreme hardness even at high temperatures and gives excellent resistance to wear through abrasion.
- Creep resistance increases noticeably with the Tungsten content.

CHROMIUM

- It improves resistance to oxidation at elevated temperature.
- Alloys with a high Chromium content cannot be attacked in oxidizing or reducing media containing halogen ions.
- Combined with Carbon, it produces complex carbides with hardness of up to 2000 Hv.

MOLYBDENUM

- It improves the corrosion resistance of Nickel since it withstands hydrochloric and hydrofluoric acids.
- It improves the mechanical strength of alloys at high temperature and increases creep resistance.

CARBON

- Forms carbides in the presence of: Chromium, Molybdenum, Tungsten, Vanadium
- Hardness at low and high temperatures increases with Carbon content.

ORIC ITALIANA S.r.l. has been founded with the purpose of establishing and developing a leading firm in the sector of superalloy abrasion, heat and corrosion, for the manufacture and sale of:

- precision castings, castings, sintered
- bars, plates, flats, tubes, forgings
- welding material

Oric is able to offer any kind of mechanical parts with a virtually limitless range of products, with far-reaching and economically valuable technical solutions. The long-lasting experience in the different industrial sectors is recognised by the world's greatest industrial groups that have chosen ORIC as their supplier.

STELLORIC manufactures a comprehensive range of alloy to suit the most aggressive environments. We produce innovative superalloy products that have earned a place in every industry, where they face difficult conditions of abrasion, heat and corrosion.

Industries served:

Agricultural	Glass	Pharmaceutics
Aircraft	Iron & Steel	Plastic
Aerospace	Mechanical	Pollution control
Automotive	Naval	Power generation
Chemical	Nuclear	Rubber
Dry cell battery	Paper & Pulp	Textiles
Food processing	Petroleum & Oil	Timber

STELLORIC products are required wherever there is a need for high performance parts to operate under adverse conditions. For any questions do not hesitate to contact our sales and technical department.

AVAILABILITY - QUALITY - ASSISTANCE

Together with the continuous search for new materials and technologies, they represent ORIC's philosophy and characteristics.

The adoption of a system of quality conforming to the standard ISO9001 has the purpose of monitoring the level of quality and maintaining the elevated standards reached.

For this reason, the Company Management has directly involved all personnel from design throughout all the system's implementation phases, and has provided the company with tools that allow efficient exchanges of information on the activities developed.



*Important note:
The properties listed in this brochure
are only indicative and should not be
considered as guaranteed.*