

In addition to standard alloys, we cast in our foundry various other alloys that comply with customer specification including stainless steel.

Alloy	Nominal Compositions										Description
	HRC	Co	Cr	W	C	Ni	Mo	Fe	Si	B	
Cobalt Base											
Deloro Stellite 7 21 31	30-35 30-35 30-35	Bal. Bal. Bal.	26 27 26	6 7	0,4 0,2 0,5	 2 10	 6 	 	 	 	High temperature alloys having a good resistance to creep, thermal shock and oxidation. Used for gas turbine blades, brass casting dies, extrusion dies. Less ductile than Stellite 7,21 and 31 but more resistant to wear and having good resistance to shock. Used for steam and chemical valve seats. Two alloys having greater wear resistance than Stellite 6 and used for applications subject to less mechanical shock such as dies for hot pressing, the hot extrusion of copper base and aluminium alloys, bearings for zinc galvanising plants. Posses high abrasion resistance for applications not subject to thermal or mechanical shock e. g. pump sleeves and rotary seal rings, wear pads, bearing sleeves, homogeniser parts, can rolls, plastic extrusion liners. These alloys have excellent resistance to oxidation at elevated temperatures and deformation resulting from thermal cycling. Used for furnace furniture and burner nozzles. Combines excellent mechanical wear resistance with good corrosion resistance. Used for wedge gate valves at elevated temperatures and corrosive environments as well as for plastic twin extrusion liners.
Deloro Stellite 6	39-43	Bal.	28	5	1						
Deloro Stellite 4 12	45-49 47-51	Bal. Bal.	33 29	14 8	1 1,8		1				
Deloro Stellite 3 20 1040	51-58 55-59 56-60	Bal. Bal. Bal.	30 33 33	13 18 18	2,4 2,5 2,0						
Deloro Stellite 250 251	19-29 23-35	Bal. Bal.	28 28		0,1 0,3		20 18	$\frac{Nb}{2}$			
Tribaloy T400 T800	51-58 54-62	Bal. Bal.	8,5 17,5		0,1 0,1	28 28	3 3	2,6 3			

Nickel Base

Nistelle (Hastelloy*) C C4 B	17-27 13-20 13-25		17 17	5 5	0,1 0,01 0,1	Bal. Bal. Bal.	17 17 29	6 6 6			Designed primarily for high corrosion resistance, these alloys are used for pump and valve parts, etc. in the chemical industry. A range of nickel based alloys for use where cobalt is not suitable. 40 G, 42 K and 44 K are extensively used in the glass industry as blow-blow plunger, guide rings, baffles etc. Extremely good corrosion resistance at elevated temperatures in sulphuric acid environments, used for pump parts etc. Improved, oxidation and corrosion resistance over T 400, it is not susceptible to radiation activation. Candidate for nuclear application.
Deloro alloy 40 G 42 K 44 K 50 60	29-35 30-35 38-43 48-52 59-62		7,5 4,5 10 16		0,3 0,1 0,1 0,4 0,5	Bal. Bal. Bal. Bal. Bal.	5 1 3 4 4	4 3 4 4 4,5	1,2 2 2 1,8 3,5		
Deloro alloy 1068	23-26		38		0,1	Bal.	5	1	1	$\frac{Mn}{1}$	
Tribaloy T700	42-48	3	15		0,1	Bal.	32		3,4		

Iron Base

Delcrome C Delfer B	52-56 58-65		21 18		3,7 3,2		16	Bal. Bal.		$\frac{v}{2}$	Alloys with good abrasion resistance for applications not involving severe heat or corrosion. Applications include tappet tips, paint mixers, etc.
------------------------	----------------	--	----------	--	------------	--	----	--------------	--	---------------	--

* Hastelloy is a trademark of Haynes International