

METALTROPOLIS SUPPLIES

SPECIALIST IN WEAR RESISTANT PRODUCTS & SOLUTIONS

Laser Coatings

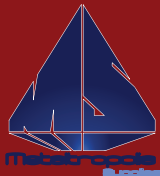
Nickel Base	C%	Si%	B%	Fe%	Cr%	Ni% base	Mo%	Other%	Typical Hardness		Recommended use/ Features/Comments
									HRC	HV	
SP 44	0.40	3.50	1.70	2.50	7.0	Bal.	X	X	40	390	Nickel based for medium to hard weld overlays.
SP 45	0.50	3.00	2.40	3.00	12	Bal.	X	X	50	510	
SP 46	0.80	3.80	3.00	3.80	14	Bal.	X	X	62	750	
SP 56	0.60	3.30	2.70	3.30	12.5	Bal.	X	X	55	550	
625	0.03	0.40	X	1.40	21.5	Bal.	9.0	Nb=3.8	X	X	Corrosion resistance
622	0.03	0.50	X	4.0	21.0	Bal.	13.0	W=3.0	X	X	

Cobalt Base	C%	Si%	Fe%	Cr%	Ni%	Co% base	Mo%	W%	Typical Hardness		Recommended use/ Features/Comments
									HRC	HV	
#1	0.25	1.0	1.5	27.0	2.8	Bal.	5.5	X	35	340	Stellite 1
#6	1.1	1.0	1.5	28.5	1.5	Bal.	X	4.4	41	400	Stellite 6
#12	1.7	1.2	1.2	25.7	22.8	Bal.	X	12.5	42	410	Stellite 12
#21	1.4	1.1	1.0	28.50	1.5	Bal.	X	8.0	44	440	Stellite 21
F	2.4	1.1	X	30.0	X	Bal.	29.5	12.5	55	590	Stellite F
T400	≤0.05	2.7	0.5	9.0	0.5	Bal.	28	X	53	560	Triballoy 400
T800	0.08	3.4	>2	17.5	>2	Bal.	28	X	58	650	

Cobalt alloys provide superior resistance to abrasion, corrosion, oxidation and sulfidation. They also have excellent dimensional stability and hot hardness to 1600°F (871°C).

Iron Base	C%	Si%	Fe% base	Cr%	Ni%	Mo%	Mn%	Other%	Typical Hardness		Recommended use/ Features/Comments
									HRC	HV	
316HSi	≤0.03	1.6	Bal.	17.0	12.0	2.5	1.5	X	X	180	Stainless alloys
410L	≤0.03	0.5	Bal.	12.5	X	X	0.1	X	X	230	
420	0.25	0.5	Bal.	13.0	<1.0	X	1.2	X	55	590	
431HC	0.2	0.75	Bal.	16.0	1.8	X	<1.0	X	53	560	
M2	1.0	0.3	Bal.	4.0	X	5.0	0.3	V=2.0 W=6.2	63	780	Abrasive-wear resistance
H13	0.35	1.0	Bal.	5.0	X	1.5	0.3	V=1.0	53	560	

All grade can be offered with:
 -140/+325 mesh
 -100/+325 mesh
 -80/+270 mesh



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