SURFACING ALLOYS TECH-HVOF SELECTOR CHART

COLMONOY®

(nickel-based)

ALLOY			NOM	IINAL	СОМР	οςιτις)N (%)			ROCKWELL HARDNESS (C-scale)	SUPPLIED AS*	DESCRIPTION AND GENERAL USES
	В	С	Cr	Fe	Мо	Si	W	Ni	Others			
43 нv	1.2	0.2	4.0	0.3	3.0	2.8		Bal	P: 2.2	35-40	Atomized Powder	Excellent crack resistance, lower hardness and slightly lower abrasion resistance and more corros
52 DJ	2.4	0.5	13.5	4.0		3.7		Bal		45-50	Atomized Powder	Similar to Colmonoy 62DJ, but has better crack resistance with slightly lower abrasion resistance Finer than standard HV particle size distribution. Finish by grinding.
53нv	2.4	0.5	13.5	4.0		3.7		Bal		45-50	Atomized Powder	Similar to Colmonoy 63HV, but has better crack resistance with slightly lower abrasion resistance
62 DJ	3.0	0.6	14.0	4.0		4.2		Bal		57-63	Atomized Powder	Hard nickel-chromium-boron alloy with excellent abrasion and corrosion resistance. Finer than st
63нv	3.0	0.6	14.0	4.0		4.2		Bal		57-63	Atomized Powder	Hard nickel-chromium-boron alloy with excellent abrasion and corrosion resistance. Finished by g
69нv	3.5	0.5	16.5	3.0	3.0	5.1		Bal	Cu: 2.0	58-63	Atomized Powder	Abrasion resistant alloy enhanced with more chromium. molybdenum and copper for better corros
88нv	3.0	0.6	15.0	3.5		4.0	15.5	Bal		58-63	Atomized Powder	A unique alloy contains chromium and tungsten borides and carbides for maximum abrasion and o For high-temperature, highly abrasive applications. Finished by grinding or CBN tools.

WALLEX[™]

(cobalt-based)

40 нv	2.0	0.6	16.2	2.0	1.9	7.6	23.5	Co: Bal	41-46	Atomized Powder	A cobalt-nickel alloy powder that forms deposits similar to those of Wallex 50, but softer. Finished many cobalt-6 applications.
50нv	3.4	0.8	19.0	2.0	2.8	10.0	18.0	Co: Bal	56-61	Atomized Powder	Good corrosion resistance and low coefficient-of-friction provides good metal-to-metal wear prote grinding.

*Powders supplied as HV or DJ particle size distributions: HV 63 x 20 microns (230 mesh x 20 microns)

DJ 53 x 5 microns (270 mesh x 5 microns)

The information provided herein is given as a guideline to follow. It is the responsibility of the end user to establish the process information most suitable for their specific application(s). Wall Colmonoy Corporation assumes no responsibility for failure due to misuse or improper application, or for any incidental damages arising out of the use of this material or process.



SURFACING ALLOYS

psion resistance than 52DJ and 53HV. Finished by carbide tools or grinding.

and similar corrosion resistance.

e and similar corrosion resistance. Finished by grinding.

andard HV particle size distribution. Finish by grinding.

grinding.

sion resistance. Finished by grinding.

corrosion resistance.

with carbide tools and grinding. Developed as a lower temperature alternative for

ection (not involving much impact). For bushings, knives, and cams. Finished by