

# Common Hardsurfacing Materials

Product	Base Material	Typical Hardness Rc	*Cracking Tendency	% Carbon	% Chromium	% Tungsten	% Boron
Stellite No. 1 (1)	Cobalt	48-54	4	2.45	33	12	-
Stellite No. 6 (1)	Cobalt	37-42	1	1.2	28	4	-
Stellite No. 12 (1)	Cobalt	41-47	2	1.85	29	8	-
Colmonoy No. 5 (2)	Nickel	45-50	4	0.55	12	-	2.5
Colmonoy No. 56 (2)	Nickel	50-55	5	0.9	18	-	1.9
Colmonoy No. 6 (2)	Nickel	56-61	5	0.65	13.5	-	3
Colmonoy No. 83 (2)	Nickel	50-55	5	2	20	34	1
Deloro #50 (1)	Nickel	46-49	4	0.5	12	-	2
Deloro #60 (1)	Nickel	54-57	5	0.7	15	-	3.1

\* On a scale of 1-5, the higher the number the greater the tendency to crack  
 (1) Trademark of Deloro Stellite Company, Inc.  
 (2) Trademark of Wall Colmonoy Corp.