

## KOBELCO LINE-UP OF COATINGS

			Coatings Included with AlPocket					Additional Coatings with Purchase of Kobelco License				
Coating Type			G	R	V	VB	SG	SD	SDG	SDG/MR	Ti1	VS/MR
Coating Chemistry			TiN	TiCN	TiAlN	AlTiN	CrN	TiCrAlN	TiCrAlSiN	TiCrAlN nanolayer	AlTiN multilayer	TiAlN based nanolayer
Color			Gold	Rose or Gray	Violet	Violet-Black	Silver-Gray	Dark Gray	Dark Gray	Dark Gray	Purple	Dark Gray
Coating Hardness	HV		2,200	2,800	2,800	3,000	1,800	3,500	3,600	3,600	2,800	3,500
	GPa		22	27	27	29	18	34	35	35	27	34
Oxidation (°C)			600	400	800	950	700	1,000	1,100	1,200	600	1,000
Coefficient of Friction			0.5	0.4	0.5	0.5	0.4	0.4	0.5	0.5	0.4	0.5
Thickness (µm)			1-4	2-4	1-4	1-4	1-5	1-4	1-4	1-4	1-4	1-4
Work Material	Carbon/Alloy Steel	Wet	●	●				●				●
		Dry			●	●		●				●
	Hardened Die Steel (>55 HRC)	Wet			●			●				
		Dry				●			●			
	Stainless Steel	Wet	●		●	●						●
		Dry			●	●						●
	Cast Iron	Wet			●	●						
		Dry			●	●						
	High Temp. Nickel Alloys	Wet								●		
		Dry										
	Titanium	Wet									●	
		Dry									●	
	Copper, Aluminum	Wet					●					
		Dry					●					
Applications	Drilling	HSS	●		●	●						●
		WC			●	●		●		●	●	●
	End Milling	HSS	●		●	●	●					
		WC			●	●	●	●	●	●	●	
	Tapping	HSS		●							●	
		WC		●							●	
	Hob/Blade	HSS			●	●						
		WC			●	●		●	●	●	●	
	Inserts	Turning	●		●	●				●	●	
		Milling	●		●	●				●	●	