



## Applications of Ceram-Guard® Coatings

A series of Ceram-Guard coating formulations are available to meet the varied requirements of metal working processes. The coating types that are recommended for various applications follows.

METAL	COATING	METAL TEMPERATURE RANGE (°F)	SPECIAL PROPERTY
Stainless Steels	CG-11	1800-2200	Oxidation resistance
	CG-27	1500-2000	Oxidation resistance
Tool Steels	CG-11-16*	1000-2200	Best decarburization resistance
	CG-27-16*	1000-2000	Spalls off cleaner
Sealer	CG-16		Applied over CG-11, CG-27 or CG-96 for additional protection
Low Alloy Steels	CG-96-16*	2000-2300	Highest temperature range
	CG-96	2000-2300	Good oxidation resistance
	CG-11	1800-2200	Spalls on cooling
	CG-27	1500-2000	Maintains scale-free surface
Titanium	CG-11	1800-2200	Oxidation resistance
Zirconium Alloys	CG-44	1400-1800	Retards hydrogen penetration
	CG-54	1400-1800	Lubricant
Molybdenum	CG-11	1700-2200	Oxidation and smoke
	CG-27	1500-2000	Resistance
Nickel Alloys	CG-11	1800-2200	Retards heat loss during hot working
	CG-27	1500-2000	Resists Oxidation
P/M Forging Preforms	CG-11-16*	1800-2000	Oxidation resistance

*\*Two-coat systems/CG-16 is a sealer coat*

Ceram-Guard coatings are used successfully in plate mills, bar mills, hot strip mills, tube mills, forging and heat treat operations. The coatings have numerous applications ranging from up-set forging to improving yields in a steel mill.

**For more information or to discuss your particular application, contact your coating specialist at (859) 727-3500.**