

ForgeOx Products Reference Guide

Alloy	Product Base	Ref.	Property Specific				Multi-Function	Application				Comments
			Oxidation Protection	Heat Retention	Lubrication	Resilience		Open Die	Closed Die	Extrusion	Ring Rolling	
Nickel	Glass	FO 110	✓		✓				✓			Inconel blade forging lubricant
		FO 111	✓		✓				✓			Electrostatic powder
		FO 112					✓		✓			Nickel blades multifunction
		FO 113	✓	✓	✓		✓	✓				Lubrication & Insulation for open die forging
		FO 120		✓				✓				Insulating coating for Waspalloy & Inconel (avoid cracking)
	Non-Glass	FO 121		✓				✓			✓	Insulating for ring rolling and open die forging
Stainless	Glass	FO 230	✓		✓			✓				Protection against oxidation – low temp. range
		FO 231	✓		✓			✓				Protection against oxidation – large temp. range
		FO 232	✓		✓			✓				Protection against oxidation – large temp. range
		FO 210	✓		✓		✓		✓			Protection/Oxidation/Lubrication
Steel	Glass	FO 330	✓	✓						✓		Descaling prior to extrusion
Titanium	Glass	FO 420		✓				✓				Insulating coating for titanium at 980 deg +
		FO 410		✓	✓			✓				Insulating coating for titanium at 920-980°C & lubrication – 1,688-1,796°F
		FO 411					✓		✓			Ti blades multifunction – dip application
		FO 412				✓	✓		✓			Ti blades multifunction – spray application
		FO 413					✓		✓			Higher molten viscosity – improves surface finish
		FO 414				✓	✓		✓			Modified version of 872196 for extrusion
		FO 415					✓		✓			Typically used on final forging operation
		FO 416					✓		✓			As 872208 with additive to reduce alpha case
		FO 421	✓	✓	✓		✓	✓				Lubricant & Insulating for open die forging for high temp. 980 deg +
FO 417	✓		✓		✓		✓			Blade forging lubricant		
Zirconium	Glass	FO 510	✓		✓		✓		✓	✓		Lubricant for low temp. 800°C +
		FO 511	✓		✓		✓			✓		Nuclear application boron-free

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