N.G.S LAPPING COMPOUNDS

خمیر الماسه :

خمیر الماسه N.G.S مناسب برای صاف و صیقل دادن سطح قطعات حساس فلزی بوده که در ساخت آن از سیلیکون کاربایـد در اندازه های مختلف استفاده شده است.

کاربردهای خمیر Lapping:

۱- Valve Seats
۲- Mechanical Seal Faces & Spacers
۳- Shaft Surface/ Bearing Races / machine ways
۴- Sharpening of shear-type cutters
۵- Clean surfaces & remove metal or material too hard

سایز بندی خمیر:

Grade and Grit Selector Guide

(1 lb. can)	GRIT	Descriptions	Average Particle Sizes of Abrasive Grains	
			1/1000 inches	Microns (0.001 mm)
	1200	**EXTREMELY FINE** Polishing, High Precision Lapping	0.12	3
	1000		0.20	5
	800		0.38	9
	600	**VERY FINE** For fine Polishing and Lapping	0.56	14
	500		0.68	17
	400		0.90	23
	320	**FINE** For Finishing, Valve Lapping, Bearings, Dies and Gauges	1.28	33
	280		1.75	44
	240	**MEDIUM FINE** For Cylinder Lapping	2.48	63
	220		2.6	66
	180	**MEDIUM** General Purpose for controlled Metal Removal	3.4	86
	150		4.8	122
	120	**COARSE** For the Initial "Cut" Fast Removal of Metal	5.6	142
	100		6.8	173
	80		15	267
	54	**VERY COARSE** For Fastest Metal Removal	18	463

N.G.S LAPPING COMPOUNDS

N.G.S LAPPING COMPOUNDS are abrasive pastes for the cutting, smoothing and finishing of metal surfaces, and for the precision mating of metal parts. For many years N.G.S Compounds have helped mechanics, tool and die makers, and machine builders create precision, silky-smooth fits in machine parts, valve seats and gear teeth.

N.G.S Compounds are formulated from silicon carbide abrasives. These compounds are classified by grit size; from very coarse to extremely fine. They are available in grease based formulations.

N.G.S Compounds are used to:

- **Produce an ultra flat surface** as in the lapping or gauges, valve seats, spacers and mechanical seal faces.
- **Smooth out surfaces** as in the lapping of tool marks from machine ways, bearing races and shaft surfaces.
- **Achieve precise dimensions while maintaining smooth surfaces as** in finishing gauges, tools and dies.
- **Achieve perfect mating of metal parts** as in lapping in of automotive and industrial valves, running-in gears, and sharpening of shear-type cutters.
- **Clean surfaces without changing the topography of the surfaces** as in cleaning mold cavities and die surfaces.
- **Remove metal or material too hard to remove in other ways** as in finishing hardened tool steel or stellite valve seats.

The Abrasives:

N.G.S compounds are available with the following abrasive grains and in a range of grit sizes. See the chart for availability of grit by size.

Silicon Carbide

The preferred abrasive for fast cutting of all but the hardest and toughest metals. It will produce a smooth flat surface but not a polished one.

The Carriers:

Grease Mix
The most widely used carrier for N.G.S abrasives. It retains its texture and lubrication properties during extended lapping and leaves a rust- preventing film on lapped surfaces.

N.G.S Lapping Compounds :

N.G.S Lapping Compounds are used on dies, molds, lapping plates, ceramic, electronic, carbide valve industry, precious & semiprecious stones, and many other applications that require a mirror finish and close tolerance.

PRODUCT DESCRIPTION :

Silicon Carbide Grease Mix provides the following product characteristics:

Technology	Grinding Compound
Chemical Type	Silicon carbide in a petroleum carrier
Appearance	Grey/ Black paste
Cure	Non-curing
Application	Grinding, Lapping and Honing
Specific Benefit	• Sixteen (16) discrete particle sizes- 1200, 1000, 800, 600, 500, 400, 320, 280, 240, 220, 180, 150, 120, 100, 80, 54 • Each grit is held within either ANSI of FEPA specifications for particle size distribution.

TYPICAL PROPERTIES

Specific Gravity @ 25°C **1.1 to 1.24**

Hardness Value **9.5**

Flash Point-See MSDS