

## 标乐(Buehler)磨抛-最终（氧化物）抛光采购指南

### 标乐美国出品-






#### FINAL POLISHING SUSPENSIONS

Final polish solutions remove the final layer of surface deformation often invisible to the naked eye. Yet the removal of this deformation is essential when evaluating with high magnifications, polarized light, differential interference contrast as well as using EBSD techniques. A variety of application specific suspensions are available to provide superior performance.



MasterMet<sup>®</sup>, mechanochemical colloidal silica (SiO<sub>2</sub>), is especially suited for ferrous and nonferrous materials, titanium, semiconductors and hard materials such as ceramics.

Water sensitive materials can be handled with MasterPolish<sup>®</sup> which contains little water. The solution provides high material removal rate due to a combination of the high pH and blending of alumina and colloidal silica abrasives.

Alumina solutions are best for soft materials such as aluminum, brass, copper, precious metals and electronics. In addition, MasterPrep<sup>®</sup> is well suited for automated dispensing.

Material	Characteristics	Part Number	Size
MasterPrep <sup>®</sup> Alumina 	<ul style="list-style-type: none"> <li>Sol-gel alumina suspension</li> <li>~8.5pH</li> <li>Excellent for minerals, ferrous metals, low melting point alloys, carbides, PWB's, precious metals and electronics</li> </ul>	63-6377-006 40-6377-032 40-6377-064	6oz [0.18ℓ] 32oz [0.95ℓ] 64oz [1.9ℓ]
MasterMet <sup>®</sup> Colloidal Silica 	<ul style="list-style-type: none"> <li>Amorphous colloidal silica suspension</li> <li>~10pH</li> <li>Chemo-mechanical polishing action</li> <li>Excellent for metals, minerals, ceramics and polymers</li> </ul>	40-6370-006 40-6370-064	6oz [0.18ℓ] 64oz [1.9ℓ]
MasterMet <sup>®</sup> 2 Non-Crystallizing Colloidal Silica 	<ul style="list-style-type: none"> <li>Non-crystallizing amorphous colloidal silica suspension</li> <li>~10.5pH</li> <li>Chemo-mechanical polishing action</li> </ul>	40-6380-006 40-6380-064	6oz [0.18ℓ] 64oz [1.9ℓ]
MasterPolish <sup>®</sup> Final Polish 	<ul style="list-style-type: none"> <li>Blend of 0.05µm high purity alumina and colloidal silica</li> <li>~9pH</li> <li>Contains minimal water and is optimal for water sensitive materials</li> <li>Excellent for most magnesium alloys, cobalt alloys, most iron alloys, nickel, metal matrix composites</li> </ul>	40-10084	32oz [0.95ℓ]
MasterPolish <sup>®</sup> 2 Final Polish 	<ul style="list-style-type: none"> <li>Chemo-mechanical polishing action</li> <li>~10pH</li> <li>Excellent for sapphire, glass, alumina, silicon nitride, metal/ceramic composites</li> </ul>	40-6376-032	32oz [0.95ℓ]

Final Polishing Suspensions (cont'd)

Material	Characteristics	Part Number	Micron	Size
<b>MicroPolish®</b> Alumina Powder & Suspension 	<ul style="list-style-type: none"> <li>• Agglomerated alumina offers higher removal rates than other aluminas of the same size</li> <li>• Good for use on magnesium, lead and their alloys</li> </ul>	<b>Powders</b>		
		40-10075	0.05µm	1 lb [0.45kg]
		40-10077	0.3µm	1 lb [0.45kg]
		40-10079	1µm	1 lb [0.45kg]
		40-10076	0.05µm	5 lb [2.3kg]
		40-10078	0.3µm	5 lb [2.3kg]
		40-10080	1µm	5 lb [2.3kg]
		<b>Suspensions</b>		
		40-10083	0.05µm	6oz [0.18ℓ]
		40-10082	0.3µm	6oz [0.18ℓ]
		40-10081	1µm	6oz [0.18ℓ]
		<b>MicroPolish® II</b> Alumina Powder & Suspension 	<ul style="list-style-type: none"> <li>• High quality deagglomerated alumina</li> <li>• Produces better surface finishes than agglomerated versions</li> <li>• Suitable for most minerals and metals</li> </ul>	<b>Powders</b>
40-6323-016	0.3µm			1 lb [0.45kg]
40-6321-016	1µm			1 lb [0.45kg]
40-6323-080	0.3µm			5 lb [2.3kg]
40-6321-080	1µm			5 lb [2.3kg]
<b>Suspensions</b>				
40-6363-006	0.3µm			6oz [0.18ℓ]
40-6363-128	0.3µm			1gal [3.8ℓ]
40-6361-006	1µm			6oz [0.18ℓ]

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