

# UHV-EL-Particles

## High purity metal particles

UHV-EL-Particles standard is a series of custom metal particle standards that are used for checking the calibration of x-ray spectrometers and particle size counting systems. The particles simulate metal wear debris that can be found in lubricating oils of internal combustion engines. We offer a number of pure elements and alloys as listed below. Please inquire for the availability of other materials.

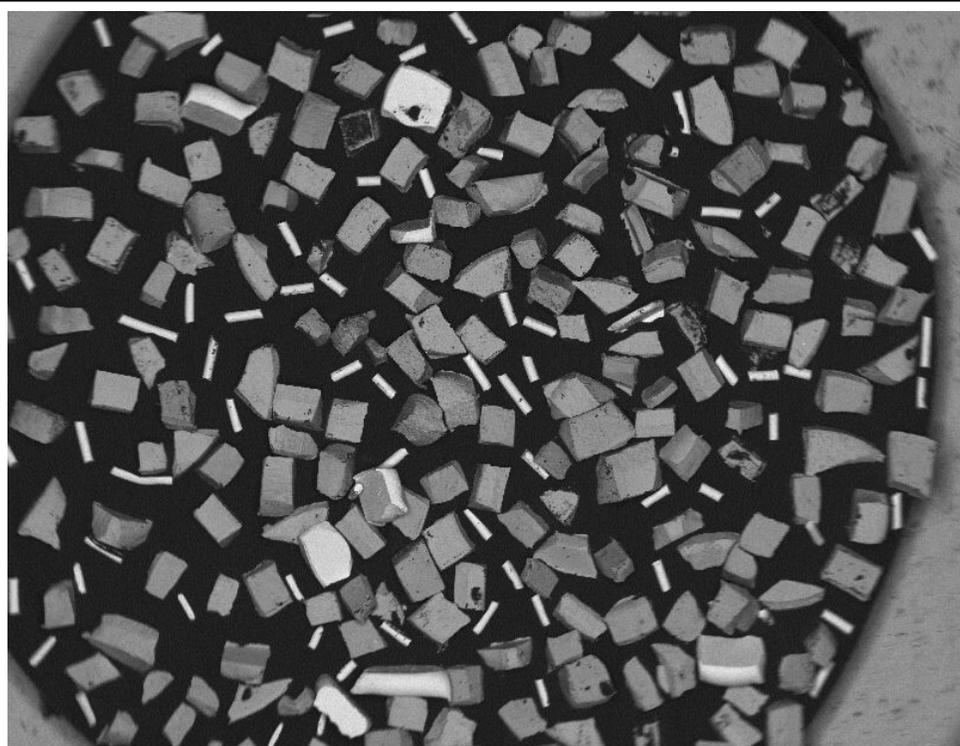
Alloy 410	SS347	17-4PH	A286	Inc 718
Alloy 4340	M50	M50 Nil	52100	A286
Silver	Chromium	Nickel		

The materials are prepared from either bulk metals or powder metallurgy. They are checked for surface oxide thickness and contamination. Particle size ranges can be varied from approximately 0.001" to 0.040".

The powders can be applied to brass disks that have a conductive carbon film on the surface. X-rays from the brass are not detected using up to 25keV electron beams. 1/2" disks are commonly used.

The backscattered electron image below shows a typical particle array. The arrays can be from one alloy or element or a mixture of materials.

Please contact us for further information.



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### **GELLER MICROANALYTICAL LABORATORY**

426e BOSTON ST., TOPSFIELD, MA 01983-1216

TEL 978 887-7000 FAX 978-887-6671

sales@gellermicro.com <http://www.gellermicro.com>

*We are certified to ISO-9001 and accredited to ISO-17025*