

The types of industrial materials found at the KCP are the same found in commercial manufacturing facilities with common machining, plating, and cleaning operations.

Material Class	Typical processes in which the material is used
Abrasives	Surface preparation/sanding
Acids and alkalis	Chemical analysis/etching Cleaning Analysis
Ceramics	Machining Electronics fabrication Mechanical or hot pressing
Cleaning agents (organic solvent based and water based cleaners) and solvents	Cleaning Surface preparation Analysis Painting
Coolants, lubricants and cutting fluids	Machining Cutting Grinding Assembly Equipment lubrication
Desiccant (humidity control)	Packaging Drying Dehumidifying
Filler materials	Epoxy molding Rubber and plastic molding Milling Polishing
Gases -inert	Temperature control Cleaning
Inks	Marking
Metals – solid (such as steels, aluminum, copper alloys, copper beryllium alloy, brass, and lead) Depleted uranium for chemical etching	Machining Marking Welding Surface preparation (including cleaning, etching and sanding) Plating Soldering
Metals - powder	Coating and sealing
Organic compounds (such as rubber, plastics and adhesives)	Molding Coating/sealing Laminating Chemical synthesis/analysis Milling Polishing
Paints and coatings (water based, oil based and powder paint)	Painting Marking
Plastics	Cutting Machining Electrical testing
Sealed radioactive sources (such as nickel, plutonium, cesium and barium)	Small, confined sources (sealed, plated, or encapsulated) used in analytical devices for quality control and calibration of components
Rubber	Molding