

# Inventions & Innovation Emerging Technology

## Tough-Coated Hard Powders

This new class of tool and die materials is being developed to replace tungsten carbide and cobalt mixes in producing products of extreme hardness and toughness. Tools made with tough-coated hard powders do not require an external coating because hard and tough phases are already dispersed throughout the tool, resulting in a continuously renewed wear surface within a tough substrate. This surface will greatly extend tool life, reducing manufacturing costs.



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