

Carbide Grade Application

Industry Code	Cobalt Content %		Applications
C-2, C-3	6%	Extremely Hard, Excellent Wear, Light Impact	Wear Parts, Blades, Plug Gages, Ring Gages, Compacting Powder Metal, Small Dies, Mandrels, Tube and Wire Drawing, Burnishing Rollers
C-9, C-10	9% - 10%	Good Wear / Light Impact	Stamping Dies, Bushings, Draw Dies, Press Fit Bushings Gundrill Bushings, Forming Dies, Punches, Wear Guides,
C-11, C-12	11% - 13%	Good Wear / Medium Impact	Stamping Punches and Dies, Extrusion, Draw and Compacting Dies
C-13	15%	Good Wear / Medium Impact	Lamination Dies, Stamping Dies, Cold Heading Dies, Extrusion Punches, Blanking Punches and Dies
C-14	20%	High Impact / Heavy Shock / Average Wear	Swaging Dies, Cut - Off Blocks, Chop Blocks, Header Dies, Crushing Hammers and Crushing Rolls, Extrusion Punches
C-17	25%	Extreme High Impact	Highest Impact for Header Dies, Swaging Dies, Heavy Draw Dies, and Extreme Punch Applications.