

04.50.01.31.95 / Email: carbure@cheran.com

ZAE Rumilly Est - 74150 Rumilly - FRANCE

Web Site: www.cheran.com

	web site . ww					1	Physical Properties		
Carbide Grade	Chemical Composition % by mass					Average Grain	Transverse		
	wc	Со	TaC/NbC	TiC	Cr3C2	Size μm	Density g/cm ³	Hardness HV 50	Rupture Strength N/mm²
H01MS	94	6	-	-	-	0.8	14.8	1800	3800
H021MS	90	10	-		-	0.8	14.25	1600	4300
H062MS	88	12	-	-	-	0.5	14.1	1720	4200
E11		3	_	_	0.15	0.8	15.3	1925	3300
H01	96.85	6			0.2	0.8	14.95	1750	4200
	93.9				0.2	0.0	11.55	2750	1200
658	91.65	8	-	-	0.35	0.8	14.65	1700	2300
KX10	89.5	10	-	-	0.5	0.8	14.45	1600	2800
GX30	83.5	15	1.5	-	-	0.6	13.95	1320	2700
H10	94	5.5	0.5	-	-	1.2	14.95	1700	2300
H20	93	6.5	0.5	-	-	1.5	14.9	1580	2200
Н30	91	8.5	0.5	-	-	2	14.65	1455	2300
GF12	88	11.5	-	-	0.5	1.2	14.33	1455	2800
H40	87	12	1	i	-	2	14.3	1295	2850
G30	85	15	-	-	-	5.5	14	1030	2800
G30 Sol	86	14				1.5	14	1200	3200
GF15	84.5	15	-	-	0.5	2	13.95	1250	1250
G40	80	20	-	-	-	5.5	13.6	910	3000
G50	75	25	-	-	-	5.5	13.1	810	2700
P10 S	68	9	5	18	-	2	10.65	1500	1400
P20 S	76	9	5	10	-	2	12.05	1500	1650
P25 S	78.5	9	5	7.5	-	2	12.55	1450	1800
P30 S	80.5	9.5	5	5	-	2	13	1400	2050
P40 S	79	11	5	5	-	2	12.9	1350	2050
M10	83.95	6.02	2.65	7.38	-	2	12.95	1650	1700

This table represents guidance only and may be changed at any time

Areas of use

Standard rods -Centerless rules - Machining of plastics, glass, cardboard, paper
Standard rods - Blanking and machining tools
Standard rods - Fine blanking and finish machining tools

Die cores (wire drawing, drawing, shearing) - Wearing parts (sealing rings, wire guide, drill bushings, nozzles)
Die cores (wire drawing, drawing, shearing) - Machining of plastics, glass, cardboard, paper - Metrology (balls, Pads, Wedges)

Cutting tools: Milling cutters - Inserts for milling cutters - Inserts (for non ferrous and bar turning tools) - Reamers, Milling Cutters, Drills -

Compression Moulds - Cutting tools : milling cutters - Inserts for milling cutters - Inserts (for non ferrous and bar turning tools) - Reamers, Milling Cutters, Drills -

Cutting tools, Stamping - Die cores (Wire drawing, drawing, shearing) -

Die cores (Wire drawing, drawing, shearing) - Machining : Reamers - Milling cutters - Drills - Wearing parts (Sealing rings, Wire Guide, Drill Barrels, Nozzles) - Cutting inserts (for non ferrous and free cutting tools) - Pads, Wedges, Metrology balls

Die cores (Wire drawing, drawing, shearing) - Wearing parts (Sealing rings, Wire guide, Drill barrels, Nozzles) - inserts for woodworking - Centerless rules - Compression moulds - Machining of plastics (glass, cardboard, paper) - Pads, wedges, metrology balls, etc.)

Die cores (Wire drawing, drawing, shearing) - Cores for drawing shapes (Stamping, Spinning) - inserts for Woodworking - Compression moulds

Rolling mill rolls - Parts for mining, drilling (O&G), and percussion - Cutting tools - Cores for drawing shapes (Stamping, Extrusion) - Compression moulds

Wear plates (Tips, Inserts) for brazing (O&G) - Cutting tools - Cores for drawing shapes (Stamping, Spinning) - Parts for mining, drilling, Striking tools - Compression moulds - Rolling mill rolls

Cutting tools - Cores for drawing shapes (Stamping, Spinning) - Inserts for woodworking - Parts for mining, drilling, tunneling and percussion - Striking and shrinking dies - Compression moulds

Agricultural brazing inserts (ploughshares, ...) - Parts for mining, drilling, tunneling and percussion

Cutting tools - Cores for drawing shapes (Stamping, Spinning) - Inserts for woodworking - Parts for mining, drilling (O&G), and percussion - Striking and shrinking dies - Compression moulds

Cold-heading toos, Striking, shrinking and compression dies Striking, shrinking and compression dies - Hot extrusion

Cutting tools (High cutting speed, no impact, small chips)
Cutting tools (High cutting speed, no impact, small chips)

Inserts for milling cutters - Die cores (wire drawing, drawing, shearing) - Hot extrusion - **Cutting tools** (High cutting speed, no impact, small chips)

Cutting tools (Low cutting speed, large chip section)
Cutting tools (Low cutting speed, large chip section)

Cutting tools (Low cutting speed, large chip section)