





## **Characteristic Values Grade Table and Applications of ZC Carbide**

							<del></del>	
Comparison					Density	Hardness	TRS	Applications
					g/cm <sup>3</sup>	HRA	N/mm <sup>2</sup>	7.56
For Tools of	ZW4G		KG05		15.00	93.00	2900	
	ZW4T				15.10	93.80	2800	
	ZW6G	G2	KG1	C01	14.90	92.00	3000	
	ZW6T				14.95	92.80	2900	Suitable for wear resistance tools for pipe die, wire drawing die, shrinkage pipe die and powder metallurgic mould.
	ZW6X	G2			14.91	91.50	3000	
	ZW06	G2	KG2	C02	14.98	91.00	3500	
	ZW08	G3	KG3	C03	14.75	90.00	3400	
Wear	ZW10	G4	KGS	C03	14.60	89.50	3600	
Resistance	20010	04			14.00	89.30	3000	
								For anti weary & anti impact tools, e.g
	ZW12	G5	KG5	S155	14.40	88.50	3800	cut off tools, heavy extruding fastener
	ZW14	G6	KG6	E36	14.10	87.50	3500	dies, etc.
	ZW70				14.07	87.00	3600	Suitable for extruding tools
								for thin thickness parts' punches,
	ZW16	CD650	KG7		13.85	89.00	4100	extruding dies, forming dies, etc.
	ZW18C		KE18		13.60	83.50	2800	for carbide punches on 1st station
								for impact resistance forging dies, gear
	ZW15C		VA70	C27	14.00	86.50	2900	& spline shape dies, etc.
								for bolts & nuts dies, cut off dies, hex
	ZW20C	G7	VA80	C28	13.55	84.40	3200	
	ZVVZ0C	G/	VA6U	C26	13.33	64.40	3200	segment dies, etc.
	7111000				42.26	00.50	2500	for nuts dies, cut off dies, carbide
	ZW22C		VA90	E55	13.36	83.50	2600	punches for 1st station, etc.
								for heavy impact forging dies, nuts dies,
	ZW25C		VA95	C11	13.10	81.00	2800	etc.
	ZW27C				12.95	80.00	2900	for big flange dies
For Tools of								for white iron screw dies, common
High	70400		<b>6</b>	6165	42.50	05.50	2222	straight hole dies, tri-angle hole dies,
Impact Resistance	ZC18C		ST-6	SI65	13.60	86.50	3200	etc.
	ZC20C		ST-7		13.50	85.50	3200	1
	ZC20	G7		E40	13.38	86.30	3200	
	ZC22C				13.18	84.50	2860	
	ZC25C				13.05	82.50	2800	for white iron nuts & screws dies
	ZB18		EA65		13.70	84.50	2900	Suitable for normal bolts dies
			27.00		20.70	000		for both carbon and stainless screws &
	ZB20C	G7	ST-1		13.45	84.40	3000	bolts dies
	ZBZUC	٠u	31-1		13.43	84.40	3000	for gear & spline shape dies, big flange
	714/22			CLOE	42.25	04.40	2000	
	ZW23			SI85	13.25	84.10	3000	dies, hex segment dies, etc.
	ZC23C				13.17	83.50	2700	for stainless bolts & nuts dies
	ZW80				13.09	84.20	2800	Flower tooth die, head forming die
Super Ultramicro Heat Resistance	HZ88	ZN01	WF15	C	14.40	92.00	3300	for steel & casting iron drillers,
	HZ86	ZN15	WF20	Super Ultramicro Heat Resistance	14.15	91.50	3600	broaching dies, cutting tools, carbide
	ZW30				14.05	91.00	3300	punches, etc.
	<u> </u>		11460					ļ ,
	HZ40		HA60		13.97	84.80	2690	for hot forming dies
	HZ60				13.42	82.50	2800	
	HZ70				13.45	84.50	3000	
New	ZC50							
generation								for backwards extrding & heavy forward
for anti					13.88	89.50	3800	extruding dies.
weary	ZC60							for backwards & forwards extruding
& anti					13.78	86.50	3300	
impact	ZC70							for backwards & forwards extruding
iiiipact	I				13.80	88.00	3400	dies.
cold								
cold	ZC85							for big flange, heading, and hex segment
forming	ZC85				13.10	83.60	2700	
	ZC85 ZC86				13.10 13.30	83.60 84.00		