CARBIDE TEK

Carbide grain sizes can vary from nano to extra-coarse, and the size of the grains affects the tool's wear life and its best applications:

Carbidetek Grade Charts

Grade Code	ISO No.	Density	Co%	HRA	HV30	TRS	Grain Size
HF06	K10-K20	14.85	6	92.6	1720	>=3000	Submicron
HF06U	K05-K10	14.55	6	94	2000	>=3200	Ultra-fine
HF08U	K10-K20	14.45	8	93.3	1850	>=3600	Ultra-fine
HF09	K05-K10	14.35	9	94	2000	>=4000	Nano grain
HF10	K20-K40	14.4	10	91.7	1570	>=4000	Submicron
HF12U	K20-K30	14.15	12	92.5	1700	>=4000	Ultra-fine

Nano grain: Less than 0.2 µm
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Ultra-fine grain: 0.2–0.5 µm
Submicron grain: 0.5–0.8 µm
Fine grain: 0.8–1.3 µm
Normal grain: 1.3–2.5 µm
Coarse grain: 2.5–6.0 µm
Extra-coarse grain: Greater than 6.0 µm

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