

upGRADE⁺

New recycled carbide grade

We take a big step towards a more sustainable future: recycled carbide meets high performance.

Our new KLC20+ grade is made with recycled carbide and is itself recyclable. The grade is available for saw tips, indexable knives and rods. All of them offer you best performance due to our recycling processes.



Proven recycling methods

Over 99% of the raw material that is used for the KLC20+ grade is coming from our optimised recycling processes. That means the used material does not come from ore, but from secondary raw material. The properties of the grade are under CERATIZIT specification as the used carbide grains are similar to conventional mined carbide.

Reduce your carbon footprint

The “LC” in our new KLC20+ grade stands for low carbon – because with our recycled tungsten carbide powder we emit less CO₂e compared to the production with virgin raw materials. As a result, by using upGRADE, you can reduce your own carbon footprint and help to conserve the earth’s valuable and limited primary resources.



upGRADE BENEFITS

- ▲ The whole supply chain in one hand
- ▲ Reduced product carbon footprint
- ▲ Recycling as integrated part of the supply chain
- ▲ The usual high performance

CERATIZIT grade code	Binder [m %]	Grain size	Hardness		Fracture toughness (K _{IC}) [MPa*m ^{1/2}]	Transverse rupture strength [MPa]	Applications
			HV10	HRA			
KLC20+	10%	Submicron	1630	92	10	3200	

Upgrade your wood working portfolio

You can count on best performance with lower carbon emission at the same time. As an example, a comparison of the average Product Carbon Footprint (PCF) of upGRADE (KLC20+) and another high-performer grade (KCR):

Better PCF, same high performance

<p>upGRADE KLC20+</p> <p>▼</p> <p>8.99 kg CO₂e/kg product</p>	<p>KCR</p> <p>▼</p> <p>20.64 kg CO₂e/kg product</p>
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What is the Product Carbon Footprint (PCF)?

It's the specific carbon footprint in kg CO₂e/kg product or kg CO₂e/piece. It is calculated by multiplying the input information (composition, weights) with the process carbon footprint (production). Cradle-to-Gate methodology used for the calculation, including scope 1, 2 and 3.

Order your products now:

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	Mat	Designation
Knives	14855683	CTK FC 12.0x12.0x1.5 KLC20+
	14855685	CTK SC 14.0x14.0x1.2 KLC20+
	14855687	CTK SC 14.0x14.0x2.0 KLC20+
	14855688	CTK SC 15.0x15.0x2.5 R05 KLC20+
	14855691	CTK SC 15.0x15.0x2.5 R115 R05 KLC20+
	14855692	CTK SC 15.0x15.0x2.5 R150 KLC20+
	14855693	CTK SC 15.0x15.0x2.5 R150 R05 KLC20+
	14855694	CTK ST 20.0x12.0x1.5 KLC20+
	14855695	CTK ST 30.0x12.0x1.5 KLC20+
	14855696	CTK ST 40.0x12.0x1.5 KLC20+
	14855697	CTK ST 50.0x12.0x1.5 KLC20+
	14855699	CTK ST 60.0x12.0x1.5 KLC20+
Rods	14855700	CTRG W00- 6,00X330,0 KLC20+
	14855701	CTRG W00- 8,00X330,0 KLC20+
	14855702	CTRG W00- 10,00X330,0 KLC20+
	14855703	CTRG W00- 12,00X330,0 KLC20+

	Mat	Designation
Saw Tips	14869140	17037- 8.0X 2.9X2.3 TS90 KLC20+
	14869142	17037- 8.0X 3.2X2.3 TS90 KLC20+
	14869143	17037- 8.0X 3.5X2.3 TS90 KLC20+
	14869144	17037- 8.0X 3.6X2.3 TS90 KLC20+
	14869145	17037- 8.0X 3.8X2.3 TS90 KLC20+
	14869147	17037- 8.0X 4.3X2.3 TS90 KLC20+
	14869148	10975- 8.5X 4.1X2.5 TS90 KLC20+
	14869149	10975- 8.5X 4.8X2.5 TS90 KLC20+
	14869150	11748-10.5X 3.4X2.5 TS90 KLC20+
	14869151	11748-10.5X 3.5X2.5 TS90 KLC20+
	14869152	12356-10.5X 4.1X3.0 TS90 KLC20+
	14869153	12356-10.5X 4.5X3.0 TS90 KLC20+
	14869154	26457-10.5X 4.5X3.5 TS90 KLC20+
	14869155	26457-10.5X 5.0X3.5 TS90 KLC20+

If you have further questions, our experts are available at any time.
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