

# OUR PRODUCT

C A R B I D E

STRIP GRADES AND SPECIFICATIONS

## Strip Specifications



### Cemented Carbide Strips

H	Tolerance	B	Tolerance	L	Tolerance	Grade		
						ST10C	ST05B	ST11F
1.5	+0~+0.3	8.0	-0.1~+0.6	310	+0~+6.5	○	○	○
1.5	+0~+0.3	10.0	-0.1~+0.6	310	+0~+6.5	○	●	●
1.5	+0~+0.3	12.0	-0.1~+0.6	310	+0~+6.5	○	●	●
1.5	+0~+0.3	14.0	-0.1~+0.6	310	+0~+6.5	○	●	●
1.5	+0~+0.3	15.0	-0.3~+0.7	310	+0~+6.5	○	●	●
1.5	+0~+0.3	18.0	-0.3~+0.7	310	+0~+6.5	○	●	●
1.5	+0~+0.3	20.0	-0.3~+0.7	310	+0~+6.5	○	●	●
2	+0~+0.3	8.0	-0.1~+0.6	310	+0~+6.5	●	●	●
2	+0~+0.3	10.0	-0.1~+0.6	310	+0~+6.5	●	●	●
2	+0~+0.3	12.0	-0.1~+0.6	310	+0~+6.5	●	●	●
2	+0~+0.3	14.0	-0.1~+0.6	310	+0~+6.5	●	●	●
2	+0~+0.3	15.0	-0.3~+0.7	310	+0~+6.5	●	●	●
2	+0~+0.3	18.0	-0.3~+0.7	310	+0~+6.5	●	●	●
2	+0~+0.3	20.0	-0.3~+0.7	310	+0~+6.5	●	●	●
2	+0~+0.3	22.0	-0.3~+0.7	310	+0~+6.5	●	●	●
2	+0~+0.3	25.0	-0.5~+0.7	310	+0~+6.5	●	●	●
2	+0~+0.3	28.0	-0.5~+0.7	310	+0~+6.5	●	●	●
2	+0~+0.3	30.0	-0.5~+0.7	310	+0~+6.5	●	●	●
2	+0~+0.3	32.0	-0.5~+0.7	310	+0~+6.5	●	●	●
2	+0~+0.3	35.0	-0.5~+0.7	310	+0~+6.5	●	●	●
2	+0~+0.3	40.0	-0.5~+0.7	310	+0~+6.5	●	●	●
3	+0~+0.3	8.0	-0.1~+0.6	310	+0~+6.5	●	●	●
3	+0~+0.3	10.0	-0.1~+0.6	310	+0~+6.5	●	●	●
3	+0~+0.3	12.0	-0.1~+0.6	310	+0~+6.5	●	●	●
3	+0~+0.3	14.0	-0.1~+0.6	310	+0~+6.5	●	●	●
3	+0~+0.3	15.0	-0.3~+0.7	310	+0~+6.5	●	●	●
3	+0~+0.3	16.0	-0.3~+0.7	310	+0~+6.5	●	●	●
3	+0~+0.3	18.0	-0.3~+0.7	310	+0~+6.5	●	●	●
3	+0~+0.3	20.0	-0.3~+0.7	310	+0~+6.5	●	●	●
3	+0~+0.3	22.0	-0.3~+0.7	310	+0~+6.5	●	●	●
3	+0~+0.3	25.0	-0.5~+0.7	310	+0~+6.5	●	●	●
3	+0~+0.3	28.0	-0.5~+0.7	310	+0~+6.5	●	●	●
3	+0~+0.3	30.0	-0.5~+0.7	310	+0~+6.5	●	●	●
3	+0~+0.3	32.0	-0.5~+0.7	310	+0~+6.5	●	●	●

## Cemented Carbide Strips

H	Tolerance	B	Tolerance	L	Grade		
					ST10C	ST05B	ST11F
3	+0~+0.3	35.0	-0.5~+0.7	310	●	●	●
3	+0~+0.3	40.0	-0.8~+0.9	310	●	●	●
3.5	+0~+0.3	10.0	-0.1~+0.6	310	●	●	○
3.5	+0~+0.3	12.0	-0.1~+0.6	310	●	●	○
3.5	+0~+0.3	15.0	-0.3~+0.7	310	●	●	○
3.5	+0~+0.3	18.0	-0.3~+0.7	310	●	●	○
3.5	+0~+0.3	20.0	-0.3~+0.7	310	●	●	○
3.5	+0~+0.3	22.0	-0.3~+0.7	310	●	●	○
3.5	+0~+0.3	25.0	-0.5~+0.7	310	●	●	○
3.5	+0~+0.3	28.0	-0.5~+0.7	310	●	●	○
3.5	+0~+0.3	30.0	-0.5~+0.7	310	●	●	○
3.5	+0~+0.3	32.0	-0.5~+0.7	310	●	●	○
3.5	+0~+0.3	35.0	-0.8~+0.9	310	●	●	○
3.5	+0~+0.3	38.0	-0.8~+0.9	310	●	●	○
3.5	+0~+0.3	40.0	-0.8~+0.9	310	●	●	○
4	+0~+0.3	10.0	-0.1~+0.6	310	○	●	○
4	+0~+0.3	12.0	-0.1~+0.6	310	○	●	○
4	+0~+0.3	14.0	-0.1~+0.6	310	○	●	○
4	+0~+0.3	15.0	-0.3~+0.7	310	○	●	○
4	+0~+0.3	16.0	-0.3~+0.7	310	○	●	○
4	+0~+0.3	18.0	-0.3~+0.7	310	○	●	○
4	+0~+0.3	20.0	-0.3~+0.7	310	○	●	○
4	+0~+0.3	22.0	-0.3~+0.7	310	○	●	○
4	+0~+0.3	25.0	-0.5~+0.7	310	○	●	○
4	+0~+0.3	28.0	-0.5~+0.7	310	○	●	○
4	+0~+0.3	30.0	-0.5~+0.7	310	○	●	○
2	+0~+0.3	80.0	-1.2~+1.4	170	○	●	●
2.5	+0~+0.3	80.0	-1.2~+1.4	170	○	●	●
3	+0~+0.3	80.0	-1.2~+1.4	170	●	●	●
3.5	+0~+0.3	80.0	-1.2~+1.4	170	●	●	●
4	+0~+0.3	80.0	-1.2~+1.4	170	●	●	●

● Stock ○ Limited stock ◇ Other grades and dimensions on request

## Strip Grades and Specifications

Grade	Co	Grain Size of WC	Hardness		Density g/cm <sup>3</sup>	Flexural Strength MPa	Fracture Toughness MNm <sup>-3/2</sup>	Elastic Modulus GPa	Coefficient of Thermal Expansion 10 <sup>-6</sup> /°C
	Co%		HRA	HV <sub>30</sub>					
ST01F	4	Sub-Micron	94.0	2060	15.1	2800	9	550	4.6
ST03F	5	Sub-Micron	93.4	1930	14.9	3000	10	540	4.8
ST10F	6	Sub-Micron	92.9	1840	14.8	3500	10	530	4.9
ST10UF	6	Ultra-fine	93.8	2040	14.7	2900	9	530	4.9
ST05F	6	Sub-Micron	92.9	1840	14.8	3400	10	530	4.9
ST03B	6	Sub-Micron	91.6	1600	14.9	2800	11	530	4.9
ST05B	6.5	Fine	91.4	1550	14.8	3000	12	525	4.9
ST10C	7	Fine	90.7	1480	14.7	3200	12	520	5.0
ST11F	8	Sub-Micron	92.3	1720	14.6	3800	10	510	5.1
ST11UF	8	Ultra-fine	93.5	1960	14.5	3000	9	510	5.1
ST10B	8	Sub-Micron	90.5	1460	14.6	3200	11	510	5.1
ST12F	9	Ultra-fine	93.5	1960	14.4	4500	10	500	5.3
ST12NF	9	Nano	94.2	2100	14.3	4800	9	500	5.3
ST15F	10	Sub-Micron	92.0	1670	14.3	3600	11	490	5.4
ST20F	10	Sub-Micron	91.7	1620	14.4	4300	11	490	5.4
ST37F	15	Sub-Micron	89.6	1350	13.8	4100	16	430	6.3
ST37NF	15	Nano	92.0	1670	13.8	4800	10	430	6.3
ST37UF	15	Ultra-fine	91.5	1570	13.8	4000	11	430	6.3