

Cutlery Allied Trades Research Association (CATRA)

CATRA Edge Retention Test: The Total Cards Cut (TCC) measures the number of silica impregnated cards that a knife can cut. The TCC is a measure of the WEAR RESISTANCE or EDGE RETENTION of the steel. Higher the number the better.



Powder Metal Grades	Rockwell C Hardness	TCC Edge Retention
Bohler M390 MICROCLEAN (Stainless)	61+	958.6
Uddeholm Elmax (Stainless) AISI M4 (HSS)	62 61	930.7 899.7
PM 14-2-4 CrMoV Uddeholm Elmax (Stainless) Uddeholm Vanadis 4 Extra (Tool Steel) PM 14-2-3 CrMoVN PM 7.5-1.3-2.75 CrMoV Conventional Stainless & Tool Steel Grades	61 60+ 61 61 61	798.0 761.7 708.9 706.6 674.4
Bohler K110, Aisi D2 Air Hardening (Tool Steel) Bohler N690 (Stainless) 14-4 CrMo Bohler N360 (Stainless) AISI 440C (Stainless)	61 61+ 61+ 59 59	665.8 635.1 546.9 536.4 536.0
For Additional Info About CATRA – Website: www.catra.org		

