NEWCOMER PRODUCTS INC.

GRADE COMPARISON CHART

Crater Resistant Grades For Machining Steel and Continuous Chip Materials

CLASS	METAL REMOVAL APPLICATIONS	NEWCOMER			GREENLEAF		INGERSOLL		ISCAR		KENNAMETAL			MITSUBISHI		RTW (KENNAMETAL)		SANDVIK		SECO CARBOLOY		SUMITOMO		TELEDYNE STELLRAM		TOSHIBA			VALENITE			WIDIA (VALENITE)		V.R. WESSON	
		COATED	COATED	UNCTD	COATED	UNCTD	COATED	UNCTD	COATED	UNCTD		COATED	UNCTD	COATED	UNCTD	COATED	UNCTD	COATED	UNCTD	COATED	UNCTD	COATED	UNCTD	COATED	UNCTD	COATED	COATED	UNCTD	COATED	COATED	UNCTD	COATED	UNCTD	COATED	UNCTD
							807													TP400															
			NN51				597		IC254			KC820		AP20M		725		GC2145		TP300	395				T04		GH340								
P50		NK94	NN52				557		IC354			KC9040	K82	F7030		CX37	CY55	A20B		464	S10M				X44		T725X	TU40	SV231	SM225		TN7535			
		NP94	NN55				563	207	IC350			KC935	K21	UP20M	STi40T	RC906	CY55	GC4035	S6	TP30	S25M		A40	MP15	T014		T7015	UX30	SV4	V05		TN350		VR650	
	ROUGHING	NE94	NP1000	N51		G53	313	213	IC928	IC50M		KC990	K420	F620	UTi20T	RC8040	CY30M	GC225	SM30	TP200	370	AC25	U2	MP77	GP50	T533	T7025	TX20	VC935	VC272	VC5	TPC25		VR680	VR77
C5	AND	NE4000	PV52	N52	GA515	G52	327	227	IC8048	IC54	KC9325	KC850	K29	U610	STi30	RC706	CY12	GC4040	S4	TP25	375	AC3000	ST30E	MP26	SF30	TD915	T7020	TX25	VN5	SV325	VC35M	TN7525	TTM	VR623	WS
	GENERAL	NK533	PA52	N55	GA56	G55	331	235	IC9025		KC7140	KC810	K2884	U625		R621	CY16	GC4030	S30	526	390	AC225	ST40E	NL30	P30	GH330	T335S	UX25	SV221	927	VC135	TN250	TTR	VR643	VR79
	PURPOSE	NK4000	PA55	N5CP	GA915	G50	585	247	IC848		KC7935	KC8050	K2885	UC6010		RC807	CY17	GC4025	SMA	TP35	S60M	AC325	A30	MP37	S3X7	PK56	T313V	UX30	SM245	SV415	VC56	TPC35		VR792	VR77
P35			PV55				757		IC540			KC9020	K84	UC6025		R611		GC3025		CP40	S2	AC2330	A30N	TC41M	T14		T313W	TX30	ST145	VC225		TN35		VC225	
			PA524				835		IC656			KC800		UE6035		716		GC215		T60M	S4			8025	T12		T325	TX40	SV235	V90					
							J47		IC250			KC9225		F7010		914		GC2135		F25M	S6				NTA		T715X		SV421	VN8					
							M542											GC1040																		
P30									IC8005			KC9125								535										VC305					
		NK620			GA335				IC450			KC792M																		VX8					
	SEMI-	NE4000	NN60	N60	GA60		570		IC825			KC710	K40	UE6020		718	CY11	GC2015		CP30		A7006					BUH30			VC905		TN150		VR655	
C6	FINISHING	NP4000	PV60	5602	GA935	G60	757		IC950		KC9215	KC9025	K216	UE6005	STi20	918	CY7	GC4020	SH	TP100	S2	AC05	ST20E		TXH		T5020	TU20	V01	SV310	VC27	TCP25	AT15	VR653	VR75
		NA02	PA60	N6CP	G1	G54	762		IC9015		KC9035	KC6920		F7020		RC8025	CY25	GC4125	SM	F20M		AC05A	U10E	NL26	T22		T7005		SV305	SV315		TN25M		VR663	
P25		NE02	PA623		GA955	G23	813		IC805			KC9010		US7020		925		GC4015		TP22		AC105	H10E		TXL					SV3		TN200		VR660	
									IC8025			KC715M				RC8015		LC25												VC927		HCP25			
									IC4050																											
P20												KC9110							SMA																
	LIGHT	NE02	NN70			G74						SP28CV							HM								TX10S		V88	VC7					
C7	FINISHING	NK710	NN72	N70	GA6	G70		430	IC570	IC70		KC950	K45	U505	STi10T	RC8010	CY14	GC3115	H1P	TP15	S1F		ST10P	MP733	T25		AH330	TX10D		VC907	VC76	TK15	AT10	VR680	VR73
		NA02	PV72	N72					IC530N			KC910		UC5005		931	CY2		S20						T24			TU10					TTX	VR690	
P10			PA72																S1P																
																			S10																
P05																																			
C8	PRECISION																CY9																		
P01	FINISHING	NE02		N80		G80			IC520N				K7H	U66	UTi10T		CY31			TP05			ST05E						XL8	VC8			VR689	

Abrasion Resistant Grades For Machining Cast Iron and Short Chip Materials

		COATED	COATED	UNCTD	COATED	UNCTD	COATED	UNCTD	COATED	UNCTD		COATED	UNCTD	COATED	UNCTD	COATED	UNCTD	COATED	UNCTD	COATED	UNCTD	COATED	UNCTD	COATED	UNCTD	COATED	COATED	UNCTD	COATED	COATED	UNCTD	COATED	UNCTD	COATED	UNCTD
							841										350																			
							721										CQ13			CP600																
							301		IC630			KC994M					CQ14			CP300																
K40		NE311	NN311	N311			708		IC3028	IC10		KC9045	K14		GTi15		CQ12	GC235		T20M		AC230		NL92	H91			G3							
		NE94	NN10	N10	GA540		581		IC328	IC28		KC6840	K9	US735	GTi20	755	360	GC2025	R4	TP40	H30	AC304	G3	PFZ	H6		T6030	UM		V1N	V111	TN450	THR		VR18
C1	ROUGHING	NK533	NN406	N406	G910	G01M	722		IC228			KC720	K10	UC620	GTi30	955	363	GC2035		T25M	H40	AC720	G5	MP91M	H81		T1020	H		SM327		HK35	THA		2A12
							308		IC635			KC722	K1		GTi30S	R222	372	GC3040		CP50	H45	AC2000		X500	H81		T380	G2					GT30		2A68
K30							805		IC528			KC750			HTi20	3639	376	GC2040		TP400		AC700G		NL40	H71		AH170	KS20							
							831					KC721M			UF30		361	K20W		T250M		ACZ350													
							822					KC725M					384	GC1020		TP20															
							IC988										381			T250D															
							811													CP250															
							804		IC907											8036																
							555	205	IC908			KC6725	K6225					GC7020		F30M		EH520Z		SP6564	H17		T6020				V101				
K25				NP45			561	111	IC418	IC20	KC5025	KC9120	K6					GC1120	H10A	F40M	883	AC105G	A1	MP23	MP82		GH110	TH10		VC901	VC24				
		NE21	NN21	NP43	GA56	G10	R47	405	IC320	IC08	KC9315	KC992M		F515	GTi10	027	CQ23	GC3020	H13A	SD100	HX	AC110G	EH20	NL25	H22		PEM	M		VC902	VC2	HCK20	THR-F	ARM2	VR54
C2	GENERAL	NE94	NN22	N21	G920	G01M	552		IC520M		KC7225	CS5		U410	HTi20T	289	379	GC3005	H10F	T15M	H13	AC500G	G10E	NL20	HAR		AH120	EM10		VC928	VC28	TN5515	THM	VR633	RAMET 1
	PURPOSE	NA02	NP1000	N22		G02	J05		IC220		KC7025	KC995		UC5015	TF15		CQ28	GC3015	R1P	F15M	H20	EH20Z	G2	BFZ	K20		TD905	G1F		VC922	VC121	HK15M	GT10	RAMET 2	2A5
K20		NK620		N25			J03		IC308		KC7215	KC709M			UF20		CQ22	GC2030		TX150	H25	AC10G		SFZ	H21		AH740	G2F				HK150		VR630	
							711		IC508			KC7512					CQ24	GC1025		T150M		EH110Z		TP21	HTA		J740								
							723					KC7020					CQ10	GC1010		CP25				SP3036											
							732													TX100															
									IC4028																											
K15									IC428													EH510Z		SP4036											
	SEMI-	NE02		NP32	G925	G20M	560	110	IC900			KC730	K313	U510		R201	CQ23	GC1005	H10	CP200	890	EH10Z	EH10	TP2	HA										2A7
C3	FINISHING	NA02		NP34	G2	G30	595		IC910		KC5010	KC7310	K68	F5010	HTi10	R202	CQ6			T10M	895	AC211	H1	DFZ	HU6		T5010	F		VC929	VC29		THM-F	VR522	VR52
							810		IC507			KC732		UP10H	GTi05		CQ3			CP20	H15	AC300G	H2	SC1519			AH110							VR822	VR82
K10							845		IC9007			KC705M					CQ8					AC305													
K05	PRECISION																																		
C4	FINISHING	NE02		N40		G40				IC4			K11		HTi05T		CQ4		H1P				H3		HF			TH03		VC903	VC3				
K01						G25							K8		MF10															XC3200						

NEWCOMER PRODUCTS INC.

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CHART FOR APPLICATION GUIDANCE ONLY

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