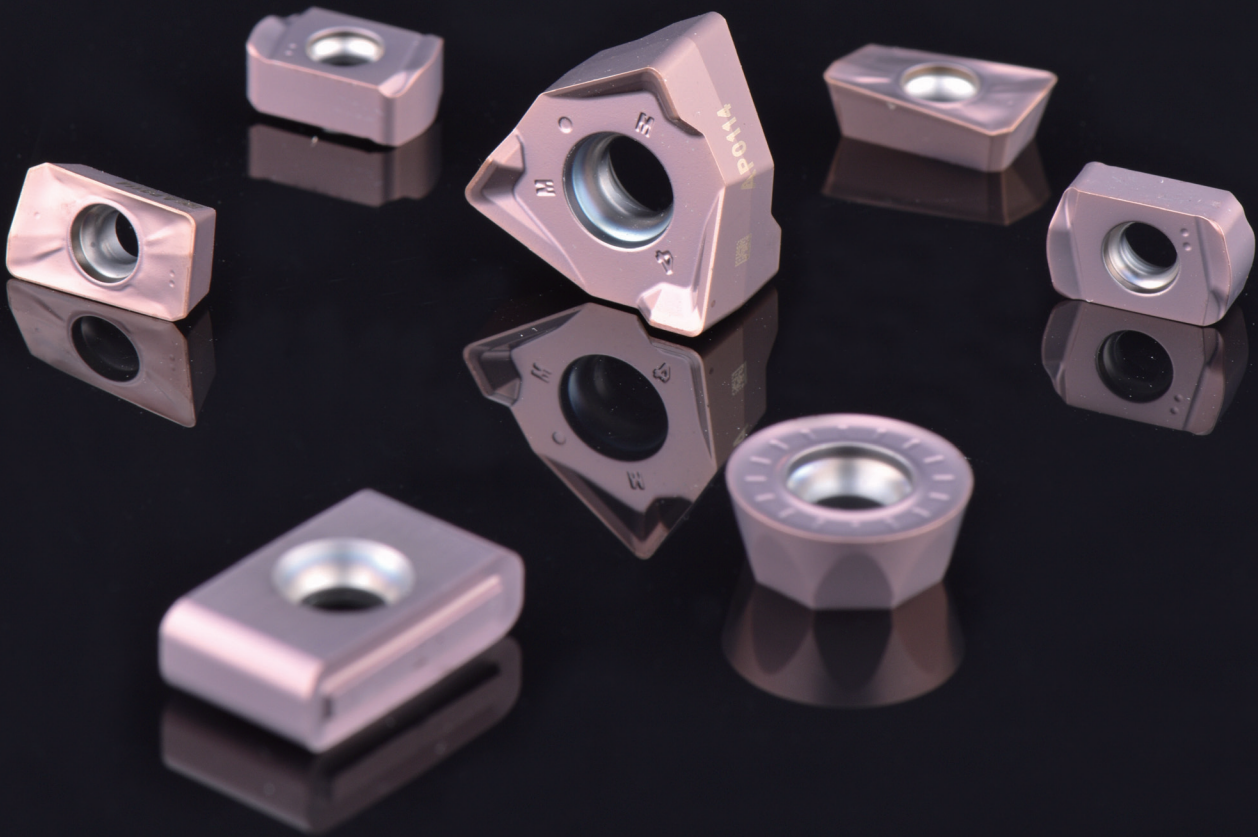


**NEW
PRODUCT!**

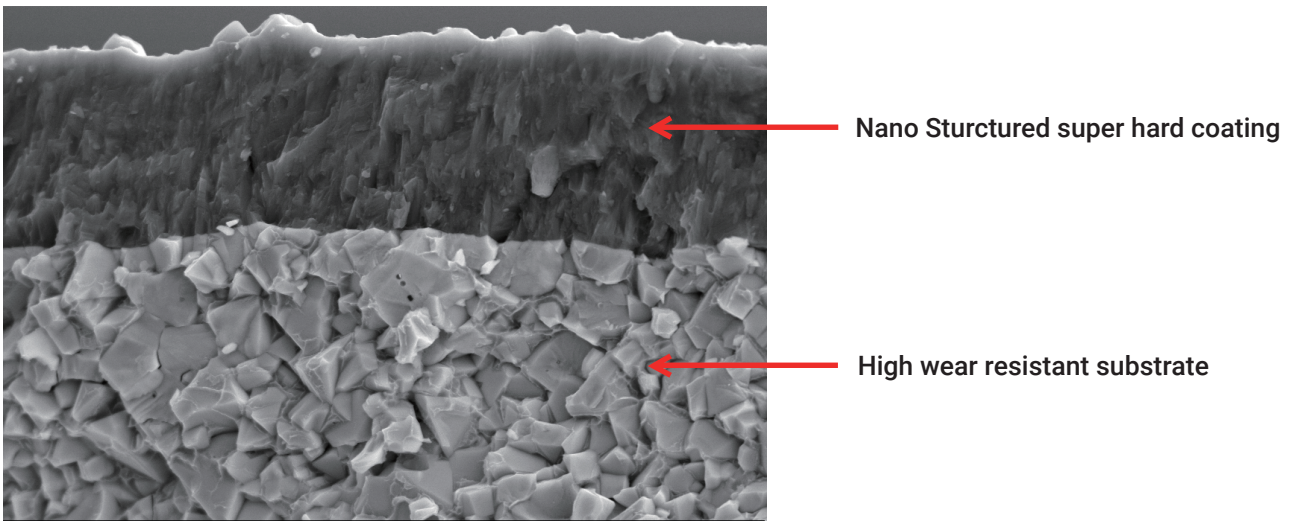
AP151H grade

For Hardened steel



AP151H Grade introduction

ACHTECK has newly launched Milling PVD grade AP151H, with submicron carbide substrate and nano structured carbide substrate and Nano super hard coating. It has high hardness, excellent wear resistance, high resistance of thermal crack and oxidation resistance, provides good machinability for machining hardened steel.



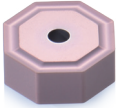
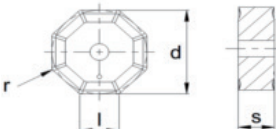

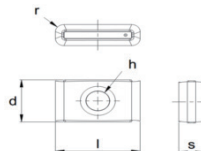
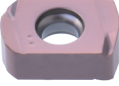
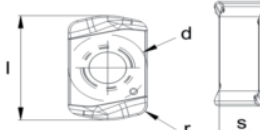

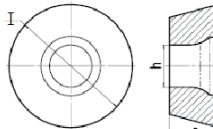

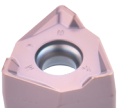
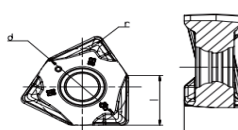
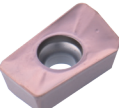
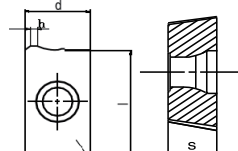
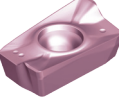
AP151H grade features

- The coating has high hardness, excellent wear resistance and thermal crack resistance.
- The coating has high hot hardness and outstanding oxidation resistance.
- Smooth coating surface reduces friction coefficient.
- Submicron carbide substrate, excellent wear resistance.

AP151H application

AP151H	ISO grade	Application range										Vc	
												m/min	
		5	10	15	20	25	30	35	40	45	50	Vcmin	Vcmax
H	H10-H20		AP151H									30	80
K	K10-K20		AP151H									100	300

AP151H product stocks

Inserts	Ordering Code	Dimensions					Grade	Geometry
		l (mm)	d (mm)	s (mm)	r (mm)	h (mm)		
	ONHF 050408-MM3 AP151H	5.3	12.7	4.8	0.8	—	●	
	LNHQ 150416FN-W AP151H	15.87	9.52	4.76	1.6	4.2	●	
	LNHQ 120408FN-W AP151H	12.7	9.52	4.76	0.8	4.2	●	
	LNMX 060410R-MM4N AP151H	10	6.35	3.6	1.0	—	●	
	RPMT 1204MOE AP151H	12	—	4.76	—	—	●	
	RPMW 10T3MOE-HR2 AP151H	10	—	3.18	—	—	●	
	RPMW 1003MOE-HR2 AP151H	10	—	3.97	—	—	●	
	WNGU 080608R-MM4 AP151H	7	12.5	7.88	0.8	—	●	
	APMT 1135PDER AP151H	11.31	6.26	3.5	0.8	1.25	●	
	APMT 1604PDER AP151H	17.32	9.37	5.17	0.8	1.54	●	

注: ● Stocked standard
○ Non-stocked standard

• AP151H Case study

Workpiece Name: forged die

Workpiece materials: 5CrNiMo

Workpiece hardness: HRC52

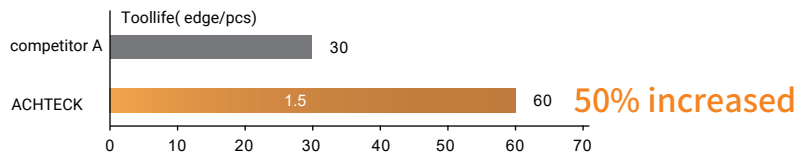
Insert: LNMX 060410R-MM4N AP151H

Cutter: AHM20-016-Z02-M08R-LN06-C

Machining process: Pocket milling

Cutting parameters: $V_c=100\text{m/min}$, $a_p=0.3\text{mm}$, $f_z=0.4$

Cooling mode: air cooling



Result comparison: ACHTECK's tool life is 50% longer than the competitor's

