



# MINING & QUARRY APPLICATIONS

**CHART  
1/4**

*Bucket liners Bottom*

*Shovel Buckets Inside*

*Shovel Buckets Out Side*

*Truck liners*

Color Identification	Product size	Grade	Thickness avg				
Dark Red	5 on 5	Oem 100 Tungsten Niobium	3/8.	APK			
Red	6 on 7	OEM 100 Tungsten Niobium	1/2.	APKQ	AKFIEN6*8*9*10	APKQ	
Orange	10 on 9	Oem 100 Tungsten Niobium	3/4.	ABE127*8*9*10 ABGN127*8*9*10	AB127*8 ABEFN127*8*9*10 ABNOG7*8*9*10	AB127*8 ABFEN127*8*9	ABC123*9 AB127*8*9*10
Light Green	16 on 11	Oem 100 Tungsten Niobium	1	AB127*8 APKQ AB127*8*9	AB127*8*9*10 ABEFN127*8*9*10 ABONG127*8*9*10	AB127*8*9 ABFEN127*8*9	ABC123*9 AB127*8*9*10
Light Blue	20 on 11	Oem 100 Tungsten Niobium	1 1/4	AB127*8 ABG127*8	AB127*8*9*10 ABEFN127*8*9*10 ABO127*8*9*10	APK	APKQ
Blue	24 on 11	Oem 100 Mill spec Niobium	1 3/8	APK APKQ APKQ	APKQ	APKQ	APKQ
Dark Blue	29 on 11	OEM 100 Tungsten Niobium	2	APKQ APK APK	APK	APK	APK
Purple	50 on 11	OEM 100 Tungsten Niobium	2 3/8	APKQ	APKQ	APK	

- A Std replacemnt Wear plate
- B Extreme wear applications
- C Extended life cycles up to 3 times over AR 400
- D Extended life cycle up to 9 times over AR plate
- E Medium Impact with abrasion
- F Extreme abrasion only
- G High impact with abrasion
- h Hi Heat application
- I Under 700 celcius heat everorments
- j Replaces white iron castings
- k Replaces general wear castings
- l Disposable chutes
- L Medium wear abrasion
- M Low impact
- N Medium Impact
- O Low Coefficient friction to reducing hang up
- P Under development for appliaction
- Q Call for tech support

- 1 Perimeter welding fixing and plug weld
- 2 Plasma cutting only 0-400 amps
- 3 Formable for bending pipe
- 4 Backing Plate Stud Fixings
- 5 Counter sunk holes
- 6 All fastening fixings 1 to 5
- 7 Moderate bending
- \*8 OEM finish
- \*9 Mill finish
- \*10 Super Glide finish



# MINING & QUARRY APPLICATIONS

**CHART  
2/4**

*Bin liners*

*Disposable Chutes*

*Transfer Chutes*

*Dozer Push Arms*

Color Identification	Product size	Grade	Thickness avg				
Red	5 on 5	Oem 100	3/8.	AKJ1236*8	AKJ1236*8	AKJ1236*8	
		Tungsten			AKJL1236*8		
		Niobium			AKJ1236*8	AKJ1236*8*9*10	
Red	6 on 7	OEM 100	1/2.	AKFIEN6*8	AKJ1236*8		APKQ
		Tungsten			AKJ1236*8		
		Niobium				APKQ	
Yellow	10 on 9	Oem 100	3/4.	AKJ1236*8	AKJL1236*8	AKJ1236*8	AKJ1236*8
		Tungsten		AKFEN6*8*9*10	AKFELN6*8*9*10	AKFELN6*8*9*10	
		Niobium		AKJ1236*8*10*9	AKJ1236*8*9*10	AKJ1236*8	AKGJ1236*8
Green	16 on 11	Oem 100	1		AKJ1236*8	AKJ1236*8	AKJ1236*8
		Tungsten		AKFEN6*8*9*10	AKFLEN6*8*9*10	AKFELN6*8*9*10	
		Niobium				AKJ1236*8*9*10	AKJ1236*8
Blue	20 on 11	Oem 100	1 1/4	APK	APKQ	APK	APK
		Tungsten Niobium					
Blue	24 on 11	Oem 100	1 3/8	APKQ	APKQ	APKQ	APK
		Mill spec Niobium					
Dark Blue	29 on 11	OEM 100	2	APK	APKQ	APK	APK
		Tungsten Niobium					
Purple	50 on 11	OEM 100	2 3/8	AKBJ1236*8*9*10			
		Tungsten		APKQ	APKQ	APKQ	APK
		Niobium		AKJB1236*889*10			

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- 7 Moderate bending
- \*8 OEM finish
- \*9 Mill finish
- \*10 Super Glide finish



# MINING & QUARRY APPLICATIONS

## CHART 3/4

*Under Ground Buckets*

*Crusher Jaw Checks*

*Crusher Main frame liners*

*Screens*

Color Identification	Product size	Grade	Thickness avg				
	5 on 5	Oem 100 Tungsten Niobium	3/8.	APK			APK
	6 on 7	OEM 100 Tungsten Niobium	1/2.		APKQ		AKFELN6*8*9*10
	10 on 9	Oem 100 Tungsten Niobium	3/4.	AKM16*8*9*10 AKGN1L6*8*9*10 AKE1G6*8*9*10	APKQ	AKJ1236*9 APK AKEGJ1236*9	AKLJ1236*8 APK AKJEG1236*8
	16 on 11	Oem 100 Tungsten Niobium	1	AKEG1M6*8*9*10 AKEG1M6*8*9*10	AKJ1236*8	AKJ1236*8	AKJ1236*8 AKJ1236*8
	20 on 11	Oem 100 Tungsten Niobium	1 1/4	APK	AKJ1236*8	APK	AKJ1236*8 AKJ1236*8
	24 on 11	Oem 100 Mill spec Niobium	1 3/8	APKQ		APK	
	29 on 11	OEM 100 Tungsten Niobium	2	APK		APK	APKQ
	50 on 11	OEM 100 Tungsten Niobium	2 3/8	APKQ	APK		APK

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# MINING & QUARRY APPLICATIONS

**CHART  
4/4**

*Dozer liners*

*Skirt Boards*

*Grizzly Bars*

*Transfer Chutes*

Color Identification	Product size	Grade	Thickness avg				
Red	5 on 5	Oem 100	3/8.		AKJ1236*8		
		Tungsten Niobium			AKJL1236*8		APK
Red	6 on 7	OEM 100	1/2.		AKLJ1236*8		AKLJ1236*9
		Tungsten Niobium			AKJ1236*8		AKNJ1236*8
		Niobium			AKGJ1236*8		
Orange	10 on 9	Oem 100	3/4.	AKL1267*9	AKJ1236*9		AKJ1236*8
		Tungsten Niobium		APK	AKFELN6*8*9*10		AKFELN6*8*9*10
		Niobium			AKJ1236*8*9*10		AKJ1236*8
Green	16 on 11	Oem 100	1	AKE1267*9	AKJ1236*8		AKJ1236*8
		Tungsten Niobium			AKFLEN6*8*9*10		AKFELN6*8*9*10 AKJ1236*8*9*10
Blue	20 on 11	Oem 100	1 1/4		AKJ1236*8		
		Tungsten Niobium		APK	AKFENJ1236*8		APK
Blue	24 on 11	Oem 100	1 3/8		AKJ1236*8		
		Mill spec Niobium		APKQ			APK
Dark Blue	29 on 11	OEM 100	2		APK	APK	APK
		Tungsten Niobium		APK			APK
Purple	50 on 11	OEM 100	2 3/8				
		Tungsten Niobium			APKQ		APK

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# CEMENT & CONCRETE PLANT APPLICATIONS

**CHART  
1/1**

*Fan Blades*      *Mixing Bins/Paddle*      *Chute Cones*      *Silo liners*

color Identification	Product size	Grade	Thickness avg				
	5 on 5	Oem 100 Tungsten Niobium	3/8.	ABCF123*8	ABCF123*8	ABC1234*8	ABC1234*8
					APK		ABGC1234*8
	6 on 7	Oem 100 Tungsten Niobium	1/2.	ABCF123*8 AKLFEN6*8 APKQ	AKLN6*8 AKLFN6*8	ABC1234*9 AKLFEN6*8 APKQ	ABC1234*9 AKJLN1236*8
	10 on 9	Oem 100 Tungsten Niobium	3/4.	AKFEN6*8*9*10	AKFEN6*8*9*10	AKFEN6*8*9*10 AKJ1236*8	AKGJ1236*8
	16 on 11	Oem 100 Tungsten Niobium	1	AKLFENC1269*9*10	APK	AKFEN6*8*9*10	APKQ
	20 on 11	Oem 100 Tungsten Nioboim	1 1/4		APK	AKFEN6*8*9*10	APK
	24 on 11	Oem 100 Mill spec Niobium	1 3/8		APKQ	APK	APKQ
	29 on 11	Oem 100 Tungsten Niobium	2		APK	APK	
	50 on 11	Oem 100 Tungsten Niobium	2 3/8		APK	APK	

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# POWER GENERATION APPLICATIONS

## CHART 1/1

*Fan Blades*      *Chutes And Hoppers*      *Pulversied Fuel Iners*      *Screw Conveyours*      *Rolled Piping*      *Crusher Screens*

Color Identification	Product size	Grade	Thickness avg						
	5 on 5	Oem 100 Tungsten Niobium	3/8.	ABCF123*8	APK	APK		APK	
	6 on 7	Oem 100 Tungsten Niobium	1/2.	ABCF123*9 APKQ	ABC123*9	AC123*9	ABCK123*9 ABFENCK123*9	ABC123*9	ABCF123*8 AKLFEN6*8 AKGJ1236*8*10
	10 on 9	Oem 100 Tungsten Niobium	3/4.	AKFEN6*8*9*10	ABC123*9	AC123*9	ABCK123*9 ABFENCK123*9	ABC123*9	ABC125*8*9 AKFEN6*8*9*10 AKJ1236*8
	16 on 11	Oem 100 Tungsten Niobium	1		APK		ABCK123*9*8 ABFENCK123*9*8	ACK125*8*10	APKQ AKJ1236*8*9*10
	20 on 11	Oem 100 Tungsten Nioboim	1 1/4	APK		APK	APKQ		APK AKJ1236*8*9*10
	24 on 11	Oem 100 Mill spec Niobium	1 3/8	APK			APKQ	APKQ	APKQ
	29 on 11	Oem 100 Tungsten Niobium	2	APK		APK	APKQ		
	50 on 11	Oem 100 Tungsten Niobium	2 3/8	APK	APK		APKQ	APKQ	

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# PULP & PAPER APPLICATIONS

**CHART  
1/1**

*Debarking Chain Skirts*

*Chipper Hoods*

*Impact Plates*

*Cyclones And Chutes*

*Flat Back Elbows*

Color Identification	Product size	Grade	Thickness avg				
	5 on 5	Oem 100 Tungsten Niobium	3/8.	ACLM125*8	ACLM126*9	ABC1236*9	ABLMC123*9
	6 on 7	Oem 100 Tungsten Niobium	1/2.	AC125*8	AC126*9 APKQ	ABCF123*8 ABFENCK123*9	ABC123*9
	10 on 9	Oem 100 Tungsten Niobium	3/4.	AC125*8	AC126*9 AKFEN6*8*9*10 AC126*9	ABC1236*9 AKFEN6*8*9*10 AKJG1236*8*9	ABC123*9 APK
	16 on 11	Oem 100 Tungsten Niobium	1	ACK125*8*10	ABCE126*9*10 ABCE126*9*10 AC126*9	APK	APK
	20 on 11	Oem 100 Tungsten Niobium	1 1/4	APK	APKQ	APKQ AKGJ1236*8	APK
	24 on 11	Oem 100 Mill spec Niobium	1 3/8	APK	APKQ	APKQ	APKQ
	29 on 11	Oem 100 Tungsten Niobium	2	APKQ	APKQ	APKQ	APK
	50 on 11	Oem 100 Tungsten Niobium	2 3/8	APK	APKQ	APKQ	AKBFEGN6*8*9*10

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# STEEL FOUNDRYS APPLICATION

**CHART  
1/2**

*Palletising Plants*

*Sinter Screens*

*Coke Screens*

*Feed Bins*

Color Identification	Product size	Grade	Thickness avg				
Red	5 on 5	Oem 100 Tungsten Niobium	3/8.		APK	APK	APK
Red	6 on 7	Oem 100 Tungsten Niobium	1/2.	ABCE126*9	ABCE126*9	AKJ1236*8 AKFENJ1236*8 AKGJ1236*8	APK
Yellow	10 on 9	Oem 100 Tungsten Niobium	3/4.	ABCE126*9	ABCE126*9*8 ABFENCE126*9*10	AKJ1236*8 AKFENJ1236*8 AKJG1236*8*9	ABC12*9
Green	16 on 11	Oem 100 Tungsten Niobium	1		ABCF1239	AKJ1236*8	ABC124*9
Green	16 on 11	Oem 100 Tungsten Niobium	1		APKQ	AKJ1236*8*9	APKQ
Blue	20 on 11	Oem 100 Tungsten Niobium	1 1/4	APK	APKQ	APKQ	ABC124*9
Blue	24 on 11	Oem 100 Mill spec Niobium	1 3/8	APKQ		APKQ	APKQ
Blue	24 on 11	Oem 100 Tungsten Niobium	1 3/8	APKQ	APKQ	APKQ	APKQ
Dark Blue	29 on 11	Oem 100 Tungsten Niobium	2	APK	APK	APKQ	
Purple	50 on 11	Oem 100 Tungsten Niobium	2 3/8	APK	APKQ	APK	AKBFEGN6*8*9*10

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# STEEL FOUNDRYS APPLICATION

## CHART 2/2

*Distribu on Chutes*

*Blast Furnes*

Color Identification	Product size	Grade	Thickness avg		
Red	5 on 5	Oem 100 Tungsten Niobium	3/8.	APK	APK
Orange	6 on 7	Oem 100 Tungsten Niobium	1/2.	ABC1234*9 ABC1234*9*10*8	ABIC123*9
Yellow	10 on 9	Oem 100 Tungsten Niobium	3/4.	ABC1234*9	ABCI123*9 AKFEINJ1236*8
Light Green	16 on 11	Oem 100 Tungsten Niobium	1	ABC1234*9 APKQ	APK
Light Blue	20 on 11	Oem 100 Tungsten Niobium	1 1/4	ABC1234*9 AKFENJ1236*8	APK
Dark Blue	24 on 11	Oem 100 Mill spec Niobium	1 3/8	APK	
Dark Navy	29 on 11	Oem 100 Tungsten Niobium	2	APK	APKQ
Purple	50 on 11	Oem 100 Tungsten Niobium	2 3/8	APK	

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- \*10 Super Glide finish



# RAIL APPLICATION

## CHART 1/1

*Train Load Out Stations*

*Car Dumpers*

*Slew Rings*

Color Identification	Product size	Grade	Thickness avg			
	5 on 5	Oem 100 Tungsten Niobium	3/8.			
	6 on 7	Oem 100 Tungsten Niobium	1/2.		APK AKFIEN6*8*9*10 AKGEN6*8*9*10	
	10 on 9	Oem 100 Tungsten Niobium	3/4.	ABLMC1257*8 ABC1257*8 ABC1257*8	ABCLM1257*8 ABC1257*8 ABC1257*8	ABC123*9*10 AKFEN6*8*9*10 AKGEN6*8*9*10
	16 on 11	Oem 100 Tungsten Niobium	1	ALMBC1257*9 ABFENC1257*9 ABCFIENG1257*9	ALMBC1257*9 ABFENC1257*9 ABCFIEG1257*9	ABC1234*9*10 AKFEN6*8*9*10 AKGEN6*8*9*10
	20 on 11	Oem 100 Tungsten Niobium	1 1/4	ALMBC1257*9 ABFENC1257*9 ABC1257*9	ALMBC1257*9 ABFENC1257*9 ABC1257*9	APK
	24 on 11	Oem 100 Mill spec Niobium	1 3/8	ABLMC1257*9 ABFENC1257*9 ABGFIC1257*9	ABLMC1257*9 ABFENC1257*9 ABCGFI1257*9	APKQ
	29 on 11	Oem 100 Tungsten Niobium	2	ABC1257*9 ABCFEN1257*9 ABCGFI1257*9	ABC1257*9 ABCFEN1257*9 ABCGFI1257*9	APK
	50 on 11	Oem 100 Tungsten Niobium	2 3/8	ABC12579 ABFENC12579 ABGFIC12579	ABC12579 ABFENC12579 ABGFIC12579	APK

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# SUGAR APPLICATIONS

**CHART  
1/2**

*Check Plates*

*Chute liners*

*Trash Plates*

*Shredder liners Plates*

Color Identification	Product size	Grade	Thickness avg				
Red	5 on 5	Oem 100 Tungsten Niobium	3/8.		AKJ1236*8		AKLMJ1236*8
Red	6 on 7	Oem 100 Tungsten Niobium	1/2.		AKJ1236*8		AKJLM1236*8
Yellow	10 on 9	Oem 100 Tungsten Niobium	3/4.	APK	AKJ1236*8 AKFEL1N6*8*9*10 AKJ1236*8	AKJ1236*8	AKJ1236*8 AKGJ1236*8
Green	16 on 11	Oem 100 Tungsten Niobium	1	AKJ1236*8 ABC1257*8 AKJ1236*8	AKJ1236*8 AKFEL1N6*8*9*10 AKJ1236*8*9*10	AKJ1236*8 AKJFEN1236*8 AKJG1236*8	AKJ1236*8 APKQ
Blue	20 on 11	Oem 100 Tungsten Niobium	1 1/4	AKJ1236*8 AKJ1236*8	APK	AKJ1236*8	AGKJ1236*8
Blue	24 on 11	Oem 100 Mill spec Niobium	1 3/8	APK	APKQ		APKQ
Dark Blue	29 on 11	Oem 100 Tungsten Niobium	2		APKQ		APKQ
Purple	50 on 11	Oem 100 Tungsten Niobium	2 3/8	APK	APKQ		APKQ

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- G High impact with abrasion
- h Hi Heat application
- I Under 700 celicius heat eveoroments
- j Replaces white iron castings
- k Replaces general wear castings
- l Disposable chutes
- L Medium wear abrasion
- M Low impact
- N Medium Impact
- O Low Coefficient friction to reducing hang up
- P Under development for appliaction
- Q Call for tech support

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- 7 Moderate bending
- \*8 OEM finish
- \*9 Mill finish
- \*10 Super Glide finish



# SUGAR APPLICATIONS

**CHART  
2/2**

*Transfer Chutes*

*Silo Bins*

*Scrubbers*

*Boil Tanks*

Color Identification	Product size	Grade	Thickness avg				
	5 on 5	Oem 100 Tungsten Niobium	3/8.		ABCLM1234*9		AKJ1236*8 AKFIE1N6*8*9*10 AKJ1236*8
	6 on 7	Oem 100 Tungsten Niobium	1/2.	AKLMJ1236*8	ABC1234*9	ABLM127*8 APK	AKJ1236*8 AK1FIEN6*8* AKJ1236*8
	10 on 9	Oem 100 Tungsten Niobium	3/4.	AKJ1236*9 AKFEN6*8*9*10	APK	AKJB127*8 AGB127*8	AKJ1236*8 AKFE1N6*8*9 AKG1236*8*10
	16 on 11	Oem 100 Tungsten Niobium	1	AKJ1236*9 AKJFEN1236*9*10 AKJG1236*9*10		APKQ	APKQ
	20 on 11	Oem 100 Tungsten Niobium	1 1/4	APK		APKQ	APK
	24 on 11	Oem 100 Mill spec Niobium	1 3/8	APK		APKQ	
	29 on 11	Oem 100 Tungsten Niobium	2	ABCFEN1257*9	APK		APKQ
	50 on 11	Oem 100 Tungsten Niobium	2 3/8	APK AKBFEGN6*8*9*10		APK	APK APKQ

- A Std replacemnt Wear plate
- B Extreme wear applications
- C Extended life cycles up to 3 times over AR 400
- D Extended life cycle up to 9 times over AR plate
- E Medium Impact with abrasion
- F Extreme abrasion only
- G High impact with abrasion
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# POLISHING & HARDFACING WELDING REPAIRS

## CHART 1/1

*Polish Disc 1*

*Polish Disc 2*

*Medium Abrasion  
& Impact*

*low Impact &  
high Abrasion*

Color	Product size	Grade	Thickness avg				
Red	5 on 5	Oem 100	3/8.	Norton	Norton	Stoody 101HC-O	Stoody 35
		Tungsten		T29-113693486	T29-113693486	Stoody CP2000	Stoody CP2001
		Niobium		T27-113731455	T27-113731455	Stoody101HC	Stoody 101hc-G
Red	6 on 7	Oem 100	1/2.	Norton	Norton	Stoody 101HC-O	Stoody 35
		Tungsten		T29-113693486	T29-113693486	Stoody CP2000	Stoody CP2001
		Niobium		T27-113731455	T27-113731455	Stoody101HC	Stoody 101hc-G
Yellow	10 on 9	Oem 100	3/4.	Norton	Norton	Stoody 101HC-O	Stoody 35
		Tungsten		T29-113693486	T29-113693486	Stoody CP2000	Stoody CP2001
		Niobium		T27-113731455	T27-113731455	Stoody101HC	Stoody 101hc-G
Green	16 on 11	Oem 100	1	Norton	Norton	Stoody 101HC-O	Stoody 35
		Tungsten		T29-113693486	T29-113693486	Stoody CP2000	Stoody CP2001
		Niobium		T27-113731455	T27-113731455	Stoody101HC	Stoody 101hc-G
Light Blue	20 on 11	Oem 100	1 1/4	Norton	Norton	Stoody 101HC-O	Stoody 35
		Tungsten		T29-113693486	T29-113693486	Stoody CP2000	Stoody CP2001
		Niobium		T27-113731455	T27-113731455	Stoody101HC	Stoody 101hc-G
Blue	24 on 11	Oem 100	1 3/8	Norton	Norton	Stoody 101HC-O	Stoody 35
		Mill spec		T29-113693486	T29-113693486	Stoody CP2000	Stoody CP2001
		Niobium		T27-113731455	T27-113731455	Stoody101HC	Stoody 101hc-G
Dark Blue	29 on 11	Oem 100	2	Norton	Norton	Stoody 101HC-O	Stoody 35
		Tungsten		T29-113693486	T29-113693486	Stoody CP2000	Stoody CP2001
		Niobium		T27-113731455	T27-113731455	Stoody101HC	Stoody 101hc-G
Purple	50 on 11	Oem 100	2 3/8	Norton	Norton	Stoody 101HC-O	Stoody 35
		Tungsten		T29-113693486	T29-113693486	Stoody CP2000	Stoody CP2001
		Niobium		T27-113731455	T27-113731455	Stoody101HC	Stoody 101hc-G

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# QUICK APPLICATION GUIDE BY MATRIX

## CHART 1/1

*Mobile Plant Fixed Plant  
Medium wear  
Medium Impact*

*Fixed Plant Mobile Plant  
Medium Wear Abrasion  
High Impact*

*Fixed Plant Mobile Plant  
High Extreme Wear  
Medium impact*

Color Identification	Product size	Grade	Thickness avg		
	5 on 5	Oem 100 Tungsten Niobium	3/8.	AKILM6*8	AKFIEN6*8*9*10
	6 on 7	Oem 100 Tungsten Niobium	1/2.	AKILM6*8	AKFIGEN6*8*9*10
	10 on 9	Oem 100 Tungsten Niobium	3/4.	AKLM6*8*9*10	AKFEN6*8*9*10
	16 on 11	Oem 100 Tungsten Niobium	1	AKELM6*8*9*10	AKFEN6*8*9*10
	20 on 11	Oem 100 Tungsten Niobium	1 1/4	AKELM6*8*9*10	AKFEN6*8*9*10
	24 on 11	Oem 100 Mill spec Niobium	1 3/8	AKBELM6*8*9*10	AKFEN6*8*9*10
	29 on 11	Oem 100 Tungsten Niobium	2	AKBGELM6*8*9*10	AKFEN6*8*9*10
	50 on 11	Oem 100 Tungsten Niobium	2 3/8	AKBEGLM6*8*9*10	AKBFEN6*8*9*10

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