

AVAILABLE STEEL MATERIALS

Steel Grade	LKM 2083		Supplier	LKM	
Steel Type	Plastic Mould Steel		Updating Price	<input type="button" value="Check"/>	
Standard and Certificate	420				
State as Delivered and Hardness	Annealed to HB 215 - 240				
Typical Chemical Composition	Component	C	Cr	Mn	Mo
	Percent	0.43	13.0	0.3	Some
Steel Properties	Can be hardened to HRC52, corrosion resistance, high polishability.				
Steel Applications	Corrosion resistance plastic moulds with good polishability.				
Austenitizing Temperature			Quenching Method	Oil/Air	
Tempering Temperature and Hardness Cross Reference	180°C	225°C	300°C	570°C	610°C
	56	56	55	-	

Steel Grade	LKM 2083H		Supplier	LKM	
Steel Type	Plastic Mould Steel		Updating Price	<input type="button" value="Check"/>	
Standard and Certificate	420				
State as Delivered and Hardness	Prehardened to HB 280 - 310				
Typical Chemical Composition	Component	C	Cr	Mn	Mo
	Percent	0.43	13.0	0.3	Some
Steel Properties	Prehardened type, corrosion resistance, high polishability.				
Steel Applications	Corrosion resistance plastic moulds with good polishability.				
Austenitizing Temperature			Quenching Method		
Tempering Temperature and Hardness Cross Reference	180°C	225°C	300°C	570°C	610°C
Prehardened Condition					

Steel Grade	LKM 2311	Supplier	LKM		
Steel Type	Plastic Mould Steel	Updating Price	<input type="button" value="Check"/>		
Standard and Certificate	P20				
State as Delivered and Hardness	Prehardened to HB 280 - 325				
Typical Chemical Composition	Component	C	Cr	Mn	Mo
	Percent	0.37	1.9	1.45	0.2
Steel Properties	Prehardened type tool steel for plastic mould.				
Steel Applications	High quality plastic mould with long run production.				
Austenitizing Temperature		Quenching Method			
Tempering Temperature and Hardness Cross Reference	180°C	225°C	300°C	570°C	610°C
Prehardened Condition					

Steel Grade	LKM 2312	Supplier	LKM		
Steel Type	Plastic Mould Steel	Updating Price	<input type="button" value="Check"/>		
Standard and Certificate	P20+S				
State as Delivered and Hardness	Prehardened to HB 280 - 325				
Typical Chemical Composition	Component	C	Cr	Mn	Mo
	Percent	0.37	1.9	1.45	0.2
Steel Properties	Excellent machinability, most suitable for high speed volume machining.				
Steel Applications	Plastics moulds for general use and core parts.				
Austenitizing Temperature		Quenching Method			
Tempering Temperature and Hardness Cross Reference	180°C	225°C	300°C	570°C	610°C
Prehardened Condition					

Steel Grade	LKM 2316	Supplier	LKM			
Steel Type	Plastic Mould Steel	Updating Price	<input type="button" value="Check"/>			
Standard and Certificate	SUS 420 J2					
State as Delivered and Hardness	Prehardened to HB 265 - 310					
Typical Chemical Composition	Component	C	Cr	Ni	Mn	Mo
	Percent	0.4	16.0	Some	0.5	1.0
Steel Properties	Prehardened type, high corrosion resistance.					
Steel Applications	High corrosion resistance plastic moulds.					
Austenitizing Temperature		Quenching Method				
Tempering Temperature and Hardness Cross Reference	180°C	225°C	300°C	570°C	610°C	
	Prehardened Condition					

Steel Grade	LKM 2316A	Supplier	LKM			
Steel Type	Plastic Mould Steel	Updating Price	<input type="button" value="Check"/>			
Standard and Certificate	SUS 420 J2					
State as Delivered and Hardness	Annealed to HB 230(max.)					
Typical Chemical Composition	Component	C	Cr	Ni	Mn	Mo
	Percent	0.4	16.0	Some	0.5	1.0
Steel Properties	Can be hardened to HRC47, high corrosion resistance.					
Steel Applications	High corrosion resistance plastic moulds.					
Austenitizing Temperature		Quenching Method	Oil / Air			
Tempering Temperature and Hardness Cross Reference	180°C	225°C	300°C	570°C	610°C	
	47	46	45	-		

Steel Grade	LKM 2343	Supplier	LKM				
Steel Type	Hot Work Tool Steel	Updating Price	<input type="button" value="Check"/>				
Standard and Certificate	AISI H11 / DIN 1.2343 / JIS SKD6						
State as Delivered and Hardness	Annealed to HB 255(approx.)						
Typical Chemical Composition	Component	C	Si	Cr	Mn	Mo	V
	Percent	0.36	1.0	≤ 5.0	5.0	1.2	0.35
Steel Properties	Good high temperature strength and high toughness, good resistance to heat checking						
Steel Applications	Suitable for die casting for aluminium and zinc alloys, hard plastics molds.						
Austenitizing Temperature	1010	Quenching Method	Oil, Air				
Tempering Temperature and Hardness Cross Reference	180°C	225°C	300°C	570°C	610°C		
	-	51	51	52			

Steel Grade	LKM 2343 ESR	Supplier	LKM				
Steel Type	Hot Work Tool Steel	Updating Price	<input type="button" value="Check"/>				
Standard and Certificate	ISI H11 / DIN 1.2343 / JIS SKD6 (ESR)						
State as Delivered and Hardness	Annealed to HB 255(approx.)						
Typical Chemical Composition	Component	C	Si	Cr	Mn	Mo	V
	Percent	0.36	1.0	≤ 5.0	5.0	1.2	0.35
Steel Properties	Homogenous structure and good isotropic property. Good plastic mold with high polishing requirement						
Steel Applications	Suitable for die casting for magnesium, aluminium and zinc alloys. Good for plastics molds with high polishing requirement.						
Austenitizing Temperature	1010	Quenching Method	Oil, Air				
Tempering Temperature and Hardness Cross Reference	180°C	225°C	300°C	570°C	610°C		
	-	51	51	52			

Steel Grade	LKM 2344	Supplier	LKM				
Steel Type	Hot Working Steel	Updating Price	<input type="button" value="Check"/>				
Standard and Certificate	H13						
State as Delivered and Hardness	Annealed to HB 180 - 210						
Typical Chemical Composition	Component	C	Si	Cr	Mn	Mo	V
	Percent	0.38	1.0	5.0	0.4	1.3	1.0
Steel Properties	Good high temperature strength, best suitable for die casting mould.						
Steel Applications	Suitable for die casting and extrusion for aluminium and zinc alloys.						
Austenitizing Temperature			Quenching Method	Oil / Air			
Tempering Temperature and Hardness Cross Reference	180°C	225°C	300°C	570°C	610°C		
	-	51	51	-			

Steel Grade	LKM 2344 ESR	Supplier	LKM				
Steel Type	Hot Working Steel	Updating Price	<input type="button" value="Check"/>				
Standard and Certificate	AISI H13/1.2344 ESR + Microdized Annealed						
State as Delivered and Hardness	Annealed to HB 225(max.)						
Typical Chemical Composition	Component	C	Si	Cr	Mn	Mo	V
	Percent	0.38	1.0	5.0	0.4	1.3	1.0
Steel Properties							
Steel Applications							
Austenitizing Temperature			Quenching Method				
Tempering Temperature and Hardness Cross Reference	180°C	225°C	300°C	570°C	610°C		

Steel Grade	LKM 2344 SUPER	Supplier	LKM				
Steel Type	Hot Working Steel	Updating Price	<input type="button" value="Check"/>				
Standard and Certificate	AISI H13/DIN1.2344ESR Micro 900 BG-Multi-Block						
State as Delivered and Hardness	Annealed to HB 225(max)						
Typical Chemical Composition	Component	C	Si	Cr	Mn	Mo	V
	Percent	0.38	1.0	5.0	0.4	1.3	1.0
Steel Properties	High toughness and good high temperature strength, with high impact strength exceeding 300J.						
Steel Applications							
Austenitizing Temperature		Quenching Method	Oil / Air				
Tempering Temperature and Hardness Cross Reference	180°C	225°C	300°C	570°C	610°C		
	-	51	51	-			

Steel Grade	LKM 2379	Supplier	LKM				
Steel Type	Cold Working Steel	Updating Price	<input type="button" value="Check"/>				
Standard and Certificate	D2						
State as Delivered and Hardness	Annealed to HB 255(approx.)						
Typical Chemical Composition	Component	C	Cr	Mo	V		
	Percent	1.55	12.0	0.7	1.0		
Steel Properties	High chromium cold working tool steel with good toughness.						
Steel Applications	Suitable for cold extrusion and forming, cold drawn, punching and blanking of high hardness metal sheet and stainless sheet.						
Austenitizing Temperature		Quenching Method	Oil / Air				
Tempering Temperature and Hardness Cross Reference	180°C	225°C	300°C	570°C	610°C		
	62	61	59	-			

Steel Grade	LKM 2510	Supplier	LKM			
Steel Type	Cold Working Steel	Updating Price	<input type="button" value="Check"/>			
Standard and Certificate	O1					
State as Delivered and Hardness	Annealed to HB 230(approx.)					
Typical Chemical Composition	Component	C	Cr	Mn	V	W
	Percent	0.93	0.6	1.1	0.1	0.6
Steel Properties	High hardenability and wear resistance cold working tool steel.					
Steel Applications	Shearing blades, cold forming, blanking and punching dies.					
Austenitizing Temperature		Quenching Method	Oil			
Tempering Temperature and Hardness Cross Reference	180°C	225°C	300°C	570°C	610°C	
	62	60	56	-		

Steel Grade	LKM 2711	Supplier	LKM			
Steel Type	Plastic Mould Steel	Updating Price	<input type="button" value="Check"/>			
Standard and Certificate	P20, Premium					
State as Delivered and Hardness	Prehardened to HB 335-380					
Typical Chemical Composition	Component	C	Cr	Ni	Mn	Mo
	Percent	0.55	0.7	1.7	0.8	0.25
Steel Properties	High hardness and high toughness.					
Steel Applications	Suitable for plastic moulds requiring high hardness, high toughness and high polishability, especially suitable for big mould.					
Austenitizing Temperature		Quenching Method				
Tempering Temperature and Hardness Cross Reference	180°C	225°C	300°C	570°C	610°C	
	Prehardened Condition					

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