

GLORIA (AISI)	DIN	JIS	BOHLER	UDDEHOLM	HITACHI
D2	1.2379	SKD11	K110	SVERKER21	SLD
D3	1.2080	SKD1	K100	SVERKER3	CRD
D3 ESR	-	-	-	-	-
O1	1.2510	SKS3	K460	ARNE	SGT
S7	1.2355	-	-	-	-
S7 ESR	-	-	-	-	-
D2 Supreme	1.2990	DC53	K340	-	SLD MAGIC
-	-	SX105V	-	-	HMD5

H11	1.2343	SKD6	W300	8402/ORVAR 2M	-
H13	1.2344	SKD61	W302	8407 2M/ORVAR 2M	DAC**
H13 ESR	-	-	-	ORVAR SUPREME	-
L6	1.2714	SKT4	W500	ALVAR 14	DM
H21	1.2581	SKD5	W100	-	-
A8 MOD	1.2362 MOD	-	-	-	-

M2	1.3343	SKH51	S600	-	YXM1
M35	1.3243	SKH55	S705	-	YXM4
M42	1.3247	SKH59	S500	-	YXM42
T1	1.3355	SKH2	S200	-	YHX2
ASP2023	1.3395	-	S790	ASP23	HAP10
ASP2030	1.3294	-	S590	ASP30	HAP40
ASP2052	1.3253	-	S390	ASP52	HAP50
ASP2060	1.3292	-	S290	ASP60	HAP72

P20	1.2311	-	M201	(UHB2311)	HPM7
P20+Ni	1.2738	-	M238	718/IMPAX SUPREME	HPM MAGIC
P20+Ni+HH	1.2738 HH	-	M238 HH	-	HPM MAGIC
-	1.2316	SUS420JSU	M303	RAMAX	HPM77
-	1.2316 HH	-	M303 HH	-	-
420	1.2083 ESR	SUS420J2	M310	STAVAX	HPM38

A286 ESR	-	-	-	-	-
17-4PH	1.4542 1.4548	-	-	-	-
15-5PH	1.4545	-	-	-	-
80A	-	-	-	-	-

Chemical Composition											
C	Si	Mn	P	S	Cr	Mo	V	Ni	Cu	W	Co
1.46	0.34	0.34	0.025	<0.001	11.49	0.81	0.79	0.32	0.21	-	-
2.10	0.26	0.23	0.021	<0.001	11.54	-	0.08	0.11	0.7	<0.01	0.08
2.09	0.25	0.32	0.024	<0.001	11.99	-	-	-	-	-	-
0.94	0.22	1.08	0.011	0.002	0.55	-	0.09	-	-	0.54	-
0.50	0.34	0.66	0.016	<0.001	3.25	1.37	0.26	0.12	0.08	-	-
0.49	0.34	0.64	0.021	<0.001	3.21	1.39	0.24	0.13	0.09	-	-
0.96	1.00	0.28	0.018	0.002	8.00	2.10	0.32	-	-	-	-
0.74	0.98	0.80	0.012	0.002	1.05	0.200	0.07	0.05	0.06	-	-
0.38	0.93	0.32	0.021	0.006	4.99	1.24	0.43	0.16	0.09	-	-
0.37	1.00	0.34	0.020	<0.001	5.09	1.16	0.84	0.2	0.07	-	-
0.36	0.88	0.33	0.022	<0.001	5.10	1.18	0.85	0.2	0.07	-	-
0.54	0.26	0.88	0.013	<0.001	1.09	0.51	0.10	1.67	-	-	-
0.29	0.28	0.23	0.018	0.003	3.27	-	0.35	0.13	0.05	9.05	-
0.50	0.92	0.39	0.014	0.002	8.15	1.37	0.40	0.23	0.08	0.01	-
0.86	0.33	0.29	0.025	0.001	4.38	5.07	1.77	0.3	0.24	6.11	-
0.92	0.32	0.28	0.025	<0.001	3.91	4.90	1.82	0.18	0.12	6.12	4.67
1.09	0.47	0.30	0.020	<0.010	3.77	9.29	1.21	0.3	0.21	1.51	7.94
0.78	0.33	0.29	0.018	-	3.98	-	1.13	-	-	18.15	-
1.28	0.61	0.30	0.030	0.020	4.00	4.88	2.98	0.21	0.14	6.11	0.24
1.25	0.29	0.27	0.020	0.020	4.10	5.00	3.00	0.21	0.090	6.30	8.40
1.59	0.29	0.27	0.025	0.23	4.95	1.94	4.75	0.21	0.12	10.48	8.04
2.20	0.36	0.32	0.026	0.024	4.12	6.82	6.39	0.20	0.14	6.48	10.36

0.39	0.27	1.42	0.017	0.002	1.93	0.18	0.01	0.02	0.07	-	-
0.40	0.27	1.44	0.019	<0.001	1.94	0.20	0.04	1.01	0.09	0.02	0.02
0.35	0.38	0.59	0.020	<0.001	15.61	1.21	-	0.86	-	-	-
0.36	0.35	0.61	0.020	0.002	15.70	1.20	-	0.75	-	-	-
0.43	0.77	0.49	0.022	<0.001	13.11		-	-	-	-	-

0.06	0.57	1.48	0.019	0.001	15.20	1.20	0.30	25.6	-	-	-
0.02	0.45	0.62	0.028	0.024	15.22	0.16	-	4.30	3.42	-	-
0.06	0.02	0.02	0.004	0.001	19.54	-	-	75.51	0.02		<0.01

Application
Cold work dies for roll forming, Blanking, Punches, shears blades etc
Cutting tools, drawing dies, trimming dies, blanking dies for paper and plastics, shear blades etc.
Cutting tools, drawing dies, trimming dies, blanking dies for paper and plastics, shear blades etc.
Blanking and stamping dies for cutting sheets up to 6 mm thickness, threading tools, drills, broaches, gauges, measuring tools, plastic moulds, shear blades..
Forging Dies, Punches, Chisels, Hammer, Hot Heading Dies and Gripper Die, Shear Blades etc.
Forging Dies, Punches, Chisels, Hammer, Hot Heading Dies and Gripper Die, Shear Blades etc.
Cold work dies for high tensile steels, Mass prodn.
cold work tool steels, such as sheet punching die, sizing die, trimming die, cold extrusion die, etc.

Hot extrusion tools, Tools for manufacture of screws, Nuts, Bolts etc.
Die casting tools & Extrusion tool, shear blade, Plastic mould, Tool for manufacture of screw, nut etc.
Die casting tools & Extrusion tool for Al, Zn, Mg. Shear blade, Plastic mould etc.
Hammer dies, Press forging dies, Shear blade etc (Pre hardened on supply)
Used for hot working dies and tooling such as die casting, Extrusion and hot forming of parts. Pressure die casting tools, moulds for Cu and Cu-alloys.
Intermediate rolls for cluster mills, trimming dies, hot cutting shears.

Taps, Twist drills, Reamers, Broach tools, Cold work tools.
As M2, Hobs, Drill reamers, Milling cutters and Forging Dies, Cold Forming Tools etc.
Taps, Reamers, Broaching tools, Twist drills.
Turning, planing and slotting tools, tapes, twist drills, threading dies, profile cutting tools, broaching tools, reamers.
Gear cutting tools, Cold work, Broaches, Rolls, Taps, Knives, Plastic injection etc.
Standard grade/good balance of properties,
Machining (Grinding, Turning, Milling), Polishing, Plastic Forming.
Good wear resistance and highest hardness of 70 HRC.

Plastic moulds, mould frames for plastic moulds and pressure casting moulds and recipient sleeves.
Large, Medium size moulds for general mechanical engg. and tool manufacture.
Large, Medium size moulds for general mechanical engg. and tool manufacture.
Injection Mould for Plastics, Die-Casting Mould, Moulding of corrosive material(PVC)
Excellent corrosing resistant for chemically aggressive compounds.
Mould for corrosive plastic and thermo plastics., Casting die, Mirror mould