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ANAND MOULD STEELS PVT. LTD.

Steel Grade Comparison Chart

SWG	AISI	ASSAB / UDDEHOLM	BÖHLER	DAIDO	HITACHI	Chemical Analysis in %								Usual delivery condition	Uses
						C	Si	Mn	Cr	Mo	Ni	V	others		
Plastic Mould Steel															
1.2311	P20	(UHB 2311)	M201	PX-4	HPM2	~0.40	~0.30	~1.50	~2.00	~0.20				H+T to HRC 29-34	For plastic moulds up to thickness 400 mm, well polishable, texturing
1.2312	P20+S	HOLDAX	M200	PX5		~0.40	~0.40	~1.50	~1.90	~0.20			S-0.06	H+T to HRC 29-34	For plastic moulds, provisory polishable, excellent machinability
1.2738 (718HH)	P20+Ni	718 / IMPAX SUPREME	M238	PX5-N		~0.38	~0.40	~1.50	~2.00	~0.20	~1.10			H+T to HRC 29-34	For plastic moulds bigger than thickness 400mm, highly polishable texturing
XPM		Nimax		PAC5000	HPM Magic	~0.27	~0.20	~1.50	~1.30	~0.50	~1.00		adds	H+T to HRC 38-42	Improved welding compared to 1.2738, very good polishability
XPM VICTORY ESR						~0.27	~0.20	~1.50	~1.30	~0.50	~1.00		adds	H+T to HRC 38-42	Very high purity level good polishability, use for car light system moulds, improved welding compared to 2738.
1.2083	420 MOD	S136 / STAVAX	M310	S-Star		~0.40	~0.40	~0.80	~13.00					annealed	For anti-corrosive plastic moulds, highly polishable in hardened condition
1.2083 VICTORY ESR	420 ESR	S136 / STAVAX	M310	S-Star		~0.40	~0.40	~0.80	~13.00					annealed	Same as 1.2083, improved polishability
1.2083 mod. VICTORY ESR		POLMAX		D-Star	HPM38S	~0.38	~1.00	~0.50	~13.00			~0.25	adds	annealed	Improved corrosion resistance compared to 1.2083, improved polishability
CRMHP VICTORY ESR		S136 - SUPREME	M333			~0.25	~0.30	~0.40	~14.00				N	annealed	Plastic moul, moulds for optical products, for glass industry, corrosion resistance
CRMHP VICTORY ESR						~0.26	~0.30	~0.45	~14.00				N	annealed	Plastic moul, moulds for optical products, for glass industry, corrosion resistance, vacuum hardening up to 60HRC
1.2316			M300		SCS 2	~0.36	~0.35	~0.70	~15.50	~1.00	~0.50			H+T to HRC 30-34	For anti-corrosive plastic moulds, to be used in H+T condition, highly polishable
1.2316 VICTORY ESR			M300			~0.36	~0.35	~0.70	~15.50	~1.00	~0.50			H+T to HRC 30-34	Same as 1.2316, improved microstructure, improved polishable
1.2316mod. VICTORY ESR			M303			~0.26	~0.40	~0.90	~15.00	~1.00	~0.70			H+T to HRC 28-32	Improved polishability/corrosive resistance and more homogenous structure than 1.2316V
1.2767		GRANE	K600			~0.45	~0.25	~0.30	~1.30	~0.25	~4.00			annealed	Highly stressed plastic moulds, cutting tools
1.2711						~0.55	~0.20	~0.70	~0.70	~0.30	~1.70	~0.10		H+T to HRC 34-38	Oil-hardened plastic mould steel, good polishability, higher wear resistance
1.2714	~L6	ALVAR 14	W500	GFA	DM	~0.55	~0.20	~0.75	~1.00	~0.45	~1.60	~0.10		H+T to HRC 38-42	Swaging dies, hot shears, tools for forging, moulds high hard 35-38HRC
CPM40 VICTORY ESR			WIPH	NAK80-P	CENA1	~0.07	~1.10	~0.50	~4.00	~1.00	~3.00		adds	H+T to HRC 37-42	Age-hardened mould steel for flat screen housing
GEST 80 VICTORY ESR			M461	NAK80	HPM50	~0.14	~0.30	~1.40	~0.30		~2.80		Cu+A1	H+T to HRC 38-42	For lens moulds, uniform hardness, excellent dimensional stability
1.2085		RAMAX - S	M314	G-Star	HPM77	~0.33	~0.30	~0.80	~16.00		~0.30		S~0.07	H+T to HRC 28-33	Corrosion-resistant, improved machinability, mould frme steel
Hot Work Steel															
1.2343	H11	8402 / ORVAR 2M	W300	DHA-world		~0.38	~1.00	~0.35	~5.00	~1.30		~0.40		EFS-annealed	Pressure casting, extrusion and injection tools, mandrils, hot shears, moulds for plastics
1.2343 VICTORY ESR	H11 ESR	8402 / ORVAR 2M	W300 Isobloc			~0.38	~1.00	~0.35	~5.00	~1.30		~0.40		EFS-annealed	Because of the isotropic properties for highest application
1.2344	H13	8407 2M / ORVAR 2M	W302		DAC	~0.40	~1.00	~0.35	~5.00	~1.30		~1.00		EFS-annealed	Pressure casting, extrusion and injection tools, mandrils, hot shears
1.2344 VICTORY ESR	H13 ESR	8407 SUPREME / ORVAR SUPREME	W302 Isoblco	DHA1-A		~4.40	~1.00	~0.35	~5.00	~1.30		~1.00		EFS-annealed	Because of the isotropic properties for highest application
1.2347	H13+S			DH2F	FDAC	~0.38	~1.00	~0.40	~5.10	~1.30		~1.00	~S 0.09	H-T to HRC 37-41	Better machinability compared to 1.2344, also in the hardened and tempered condition
EX1 VICTORY ESR		8418 / DIEVAR		DH31 EX	DAC55	~0.36	~0.15	~0.25	~5.00	~1.80		~0.50		EFS-annealed	Pressure casting, extrusion and injection tools, high resistance to thermal properties, high level of toughness
EX2 VICTORY ESR						~0.38	~0.20	~0.35	~5.00	~1.70		~0.45		EFS-annealed	Tools for die casting, tools for extrusion, injection tools
1.2367 VICTORY ESR			W403 Isobloc			~0.37	~0.40	~0.40	~5.00	~2.90		~0.50		EFS-annealed	Heavy duty forging dies, extruders, injection tools
Cold Work Steel															
1.2379	D2	KW41/SVERKER-21	K110	DC11	SLD	~1.50	~0.30	~0.40	~11.20	~0.80		~0.90		annealed	Heavy-duty cutting and punching tools, forming rollers, shear blades