

Abrasion Resistant Steel Plate D&G

Excellent Abrasion Resistant

4 or 5 times stronger than ordinary steel

Excellent Workability

Larger in elongation and better in workability

Excellent Weldability

Decrease deformation rate

Wide range of sizes

Available in a wide range of sizes

High Quality
Fastest Delivery
Wide Ex-Stock Range

Grades 400/500

Thickness	Width	Length
6	1524	6096
8	1524	6096
10	1524	6096
12	1524	6096
16	1524	6096
20	2000	6000
25	2000	6000
30	2000	6000
35	2000	6000
40	2000	6000
50	2000	6000
60	2000	6000



Applications

- Mining Facilities
- Chemical Industry
- Steel and Gas Industry
- Agricultural Equipment
- Construction Equipment
- Various Plants Equipment
- Cement Plants Equipment

Forming

Bend forming must be processed in 10 to 15°C. Check spring back before forming.

Drilling

Due to its high hardness, it is thought to be most appropriately drilled by combination of machining center and cemented carbide drills.

Cutting

It can be cut with oxy-gas equipment, plasma cut or laser cut. Avoid water-cooling after thermal cutting.

Tapping

For the further process with specific machine or various works, it is advisable to contact with reliable tool manufacturer.

Welding

All available welding methods can be used and especially suitable for MAG and Manual Arc Welding. Being required strict preheating control because of greater tendency of delayed cracking than normal structural steel.



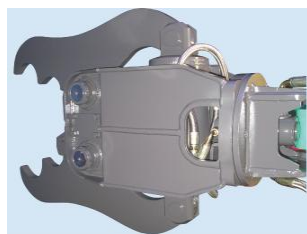
AR400

Brand	Manufacturer/CO	Chemical composition(%)							
		C	Mn	Si	Cr	P	S	B	OTHERS
EVERHARD 400	JFE/JAPAN	0.25	1.60	0.55	0.40	0.030	0.030	0.004	Ti 0.02
SUMIHARD 400	SUMITOMO/JAPAN	0.21	1.60	0.70	0.45	0.025	0.003	0.003	P 0.025
WELHARD 400	NSC/JAPAN	0.22	1.60	0.55	0.50	0.014	0.004	0.005	P 0.015

AR 500

Brand	Manufacturer/CO	Chemical composition(%)							
		C	Mn	Si	Cr	P	S	B	OTHERS
EVERHARD 500	JFE/JAPAN	0.35	1.60	0.55	0.80	0.030	0.030	0.004	Ti 0.02
SUMIHARD 500	SUMITOMO/JAPAN	0.35	1.60	0.70	0.90	0.008	0.003	0.003	P 0.025
WELHARD 500	NSC/JAPAN	0.35	1.60	0.35	0.10	0.007	0.003	0.005	P 0.015

•This is not fixed, but average. The contents may change depending on the process.



Mechanical Properties

Grade	Brand	Yield Strength (N/mm ²)	Tensile Strength (N/mm ²)	Elongation (%)	Impact Value (J at °C)	Brinell Hardness Range (HB)
AR 400	EVERHARD 400	1163	1316	20	21J at 0°C	Min 401
	SUMIHARD 400	1156	1325	10	30J at -40°C	360-440
	WELHARD 500	1070	1236	22	25J at -20°C	Min 401
AR 500	EVERHARD 500	1297	1449	17	21J at 0°C	Min 447
	SUMIHARD 500	1373	1552	8	25J at -40°C	450-550
	WELHARD 500	1294	1638	18	37J at -20°C	Min 477