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BaoAM®

宝钢高铝锌铝镁镀层钢板

Baosteel Hot-Dip Aluminum-Zinc-Magnesium Alloy Coated Steel

www.baosteel.com

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目录

注：本产品手册所指宝钢高铝锌铝镁（BaoAM®）即为符合 Q/BQB 425 标准的热镀铝锌镁产品。

Baosteel Hot-Dip Aluminum-Zinc-Magnesium Alloy Coated Steel (BaoAM®) mentioned in this manual refers to the Hot-Dip Aluminum-Zinc-Magnesium Alloy Coated product that conforms to the Standard Q/BQB425.

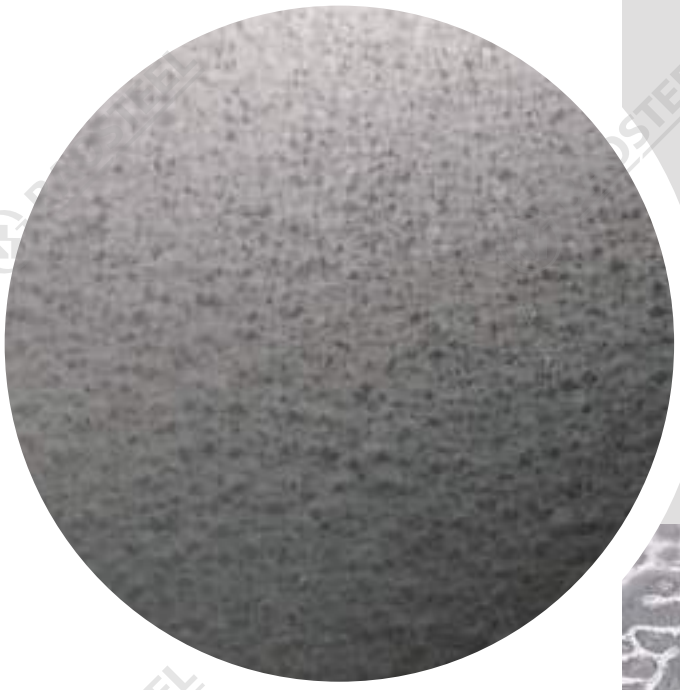
什么是 What is BaoAM®

BaoAM® 是宝钢锌铝镁（GalvAluMag®）系列产品家族的一员，是在原有镀铝锌（GL）镀层中添加了镁元素之后的升级产品，具有**更优异的平面耐蚀性和显著提高的切口耐蚀性**等特点，广泛适用于建筑等行业。

BaoAM® 同样是**宝钢专业打造的无铬环保产品**，在制造过程环保化的基础上，再配以户外专用耐候环保涂层，赋予户外建筑用途以更绿色的内涵、更长久的寿命。

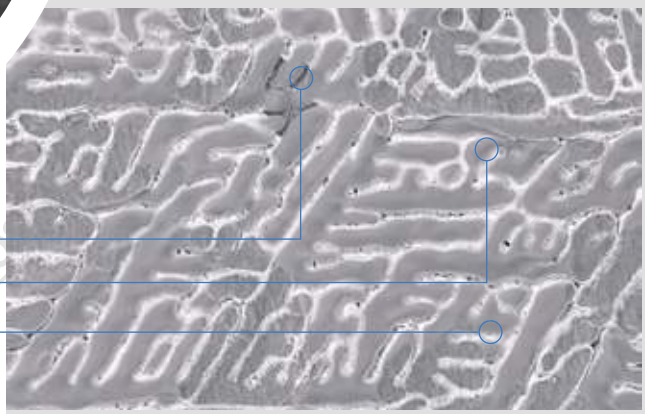
BaoAM® is a member of Baosteel's Zinc-Aluminum-Magnesium (GalvAluMag®) product family. It is an upgraded product developed by adding magnesium to the original Aluminum-Zinc(GL) coating. It has more excellent corrosion resistance on flat surfaces and cut edges, and is widely used for construction industry, etc.

BaoAM® is also a chromium-free environmental protection product specially developed by Baosteel. On the basis of the manufacturing process featuring environmental protection , it is painted with a special weather-resistant and environmental protection coating for outdoor use, which endows the outdoor building with a greener connotation and a longer service life.



连续热镀生产线上，将经过预处理的钢带浸入熔融铝锌镁合金溶液中所得到的镀层。熔融铝锌镁合金溶液中铝的质量百分数范围为 47%～ 57%，镁的质量百分数范围为 1%～ 3%，硅的质量百分数范围为 1%～ 2%，其它微量控制元素质量百分数小于 1%，其余成分为锌。

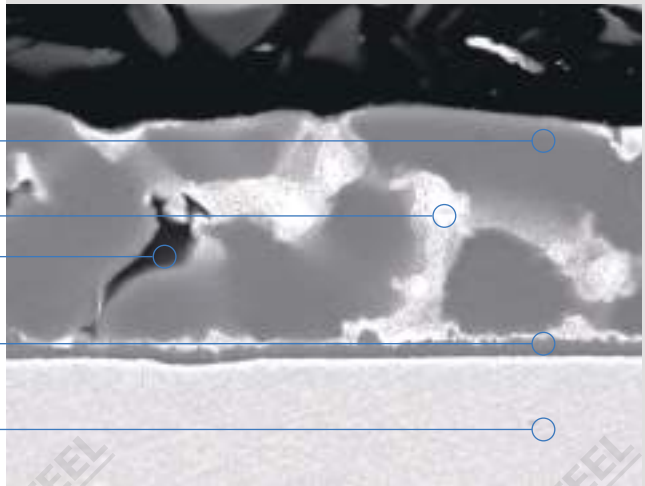
The coating product is manufactured by immersing the pretreated steel strip in a molten aluminum-zinc-magnesium alloy solution on a continuous hot-dip production line. The mass percentage of aluminum in the molten aluminum-zinc-magnesium alloy solution ranges from 47% to 57%, the mass percentage of magnesium ranges from 1% to 3%, the mass percentage of silicon ranges from 1% to 2%, the mass percentage of other trace elements is less than 1%, and the remainder is zinc.



Mg_2Si 相 Mg_2Si phase

富 Al 相 Al-rich phase

富 Zn 相 /Zn-Mg 相 Zn-rich phase/Zn-Mg phase



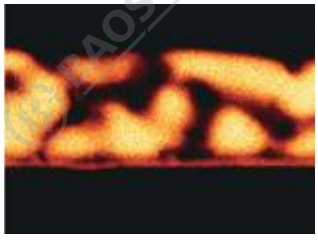
富 Al 相 Al-rich phase

富 Zn 相 /Zn-Mg 相 Zn-rich phase /Zn-Mg phase

Mg_2Si 相 Mg_2Si phase

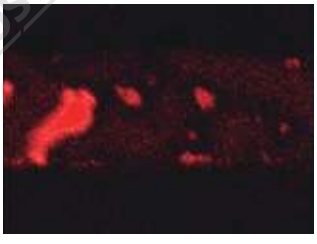
界面合金层 interface alloy layer

钢基体 steel substrate

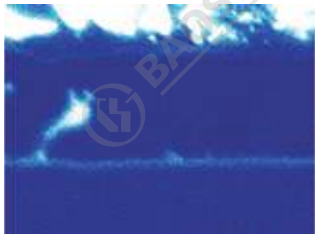


Al Ka1

Zn Ka1



Mg Ka1_2



Si Ka1

本手册中，宝钢针对相关产品进行了系列测试和检验，实绩数据供参考，供货保证值按照相应订货标准。

In this manual, Baosteel has conducted a series of tests and inspections on related products, and the actual performance data are for reference. The supply guarantee value is in accordance with the corresponding ordering standards.

01

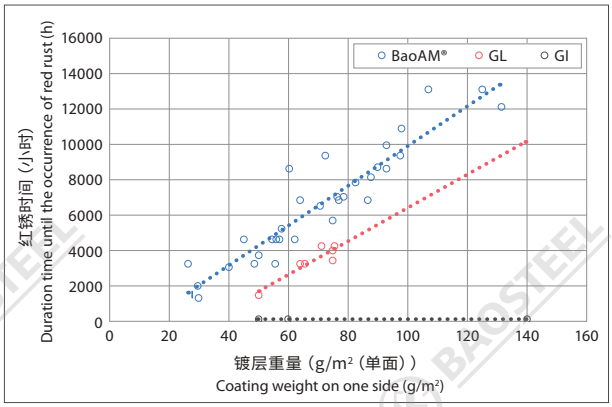
BaoAM® 平面耐蚀性 Corrosion resistance on flat surfaces

BaoAM® 镀层具有显著优于镀铝锌（GL）和热镀纯锌（GI）的平面耐蚀性。

在中性盐雾试验条件下，BaoAM® 镀层出现红锈的时间比相同镀层厚度的 GL 镀层平均延长了 50% 以上。

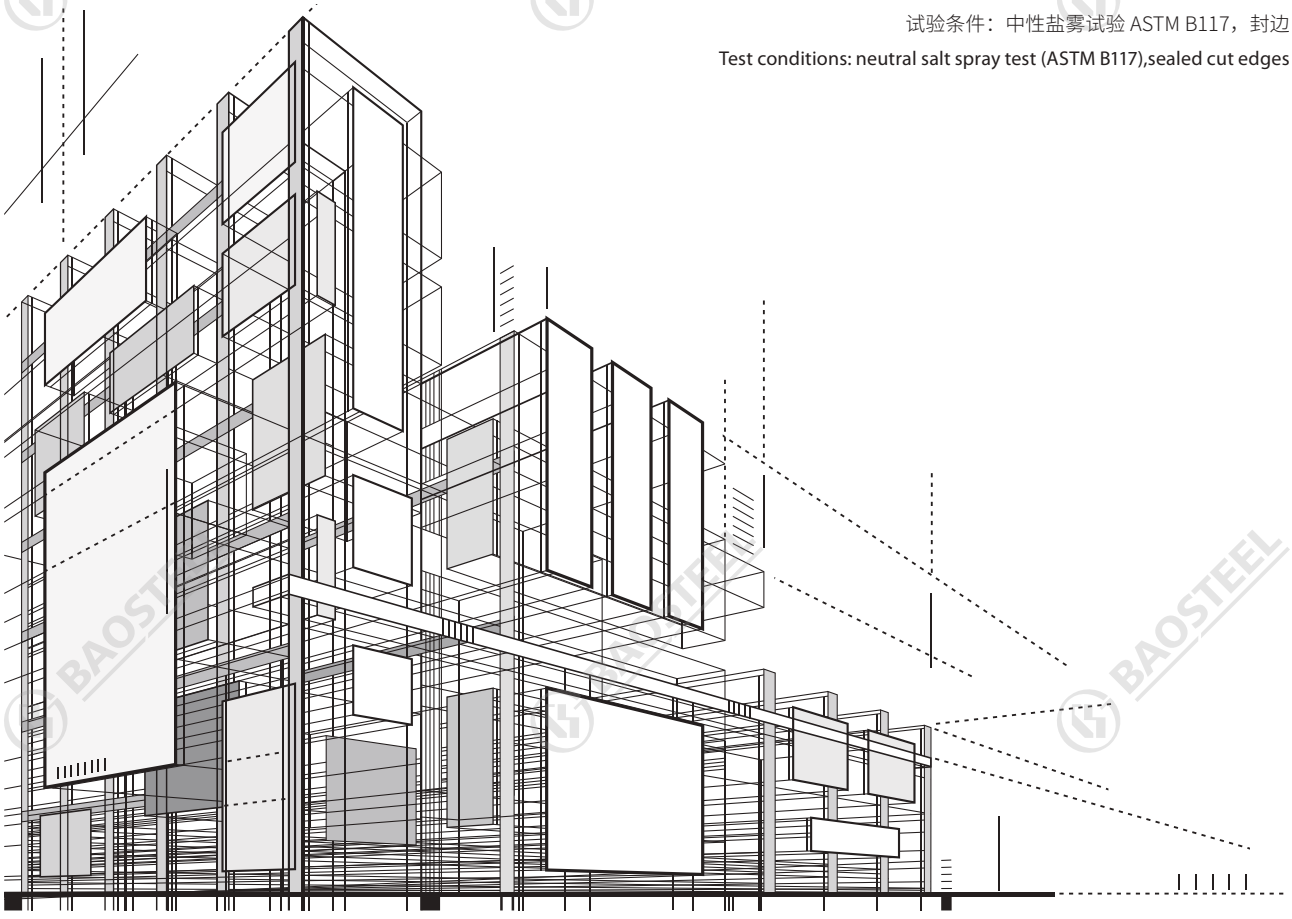
The corrosion resistance on flat surfaces of BaoAM® is significantly better than that of Al-Zn (GL) and pure zinc(GI) coatings.

Under the condition of neutral salt spray test, the duration time until the occurrence of red rust of BaoAM® coating is more than 50% longer on average than that of GL coating with the same coating thickness.



试验条件：中性盐雾试验 ASTM B117，封边

Test conditions: neutral salt spray test (ASTM B117),sealed cut edges



镀层种类 Coating type	镀层重量 (g/m²) Coating weight	1500小时 1500 h	3000小时 3000 h	4000小时 4000 h	6500小时 6500 h
BaoAM®	75/75				
GL	75/75				

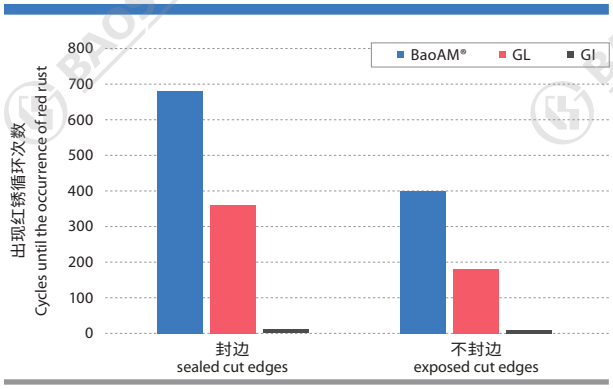
镀层种类 Coating type	镀层重量 (g/m²) Coating weight	50小时 50 h			
GI	60/60				

试验条件：中性盐雾试验 ASTM B117，封边

Test conditions: neutral salt spray test (ASTM B117), sealed cut edges

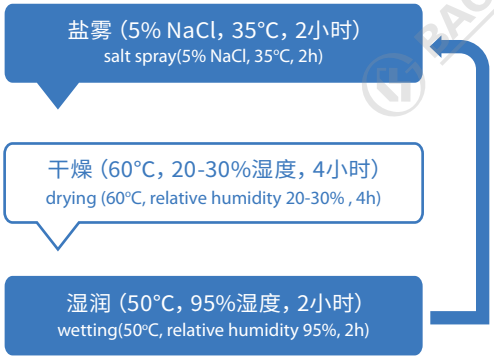
在循环腐蚀试验条件下，BaoAM® 镀层出现红锈的时间比相同镀层厚度的 GL 镀层延长了接近一倍。

Under the condition of cyclic corrosion test, the duration time until the occurrence of red rust of BaoAM® coating is nearly twice as long as that of GL coating with the same coating thickness.



试验条件：循环腐蚀试验 JIS H8502

Test conditions: cyclic corrosion test JIS H8502



循环腐蚀试验 JIS H8502 试验过程及参数

Process and parameters of the cyclic corrosion test JIS H8502

镀层种类 Coating type	镀层重量 (g/m²) Coating weight	180循环 180 cycles	360循环 360 cycles	540循环 540 cycles	680循环 680 cycles
BaoAM®	75/75				
GL	75/75				

镀层种类 Coating type	镀层重量 (g/m²) Coating weight	13循环 13 cycles	21循环 21 cycles	35循环 35 cycles	80循环 80 cycles
GI	50/50				

试验条件：循环腐蚀试验 JIS H8502，封边

Test conditions: cyclic corrosion test (JIS H8502), sealed cut edges

镀层种类 Coating type	镀层重量 (g/m²) Coating weight	180循环 180 cycles	270循环 270 cycles	360循环 360 cycles	430循环 430 cycles
BaoAM®	75/75				
GL	75/75				

镀层种类 Coating type	镀层重量 (g/m²) Coating weight	10循环 10 cycles	26循环 26 cycles	35循环 35 cycles	80循环 80 cycles
GI	50/50				

试验条件：循环腐蚀试验 JIS H8502，不封边

Test conditions: cyclic corrosion test (JIS H8502), exposed cut edges

BaoAM®，75g/75g 基板完好

Th steel substrate is not corroded

GL，75g/75g 基板严重腐蚀

The steel substrate is severely corroded

试验条件：循环腐蚀试验 JIS H8502，不封边

430 循环试验后，溶掉镀层及腐蚀产物后的基板

Test conditions: cyclic corrosion test (JIS H8502), exposed cut edges.

The coating and corrosion products are dissolved after 430 cycles.

02

BaoAM® 切口耐蚀性

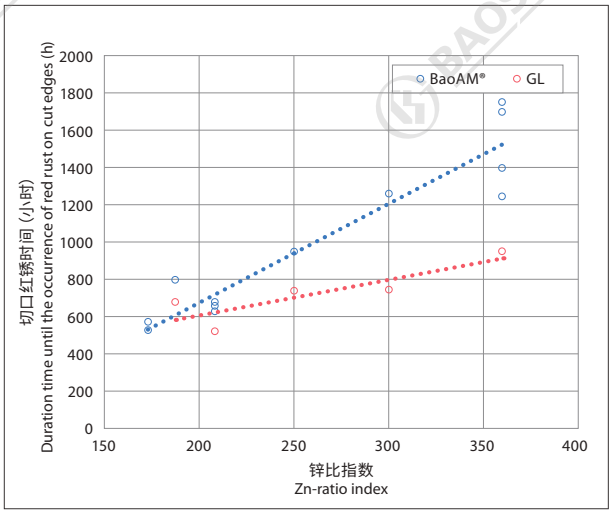
Corrosion resistance on cut edges

BaoAM® 镀层的切口耐蚀性显著优于 GL 镀层。

在中性盐雾试验条件下，锌比指数越大，BaoAM® 镀层比 GL 镀层切口耐蚀性提高的幅度越大

The corrosion resistance on cut edges of BaoAM®is significantly better than that of GL coating.

Under the condition of neutral salt spray test, as the Zn-ratio index increases, the improvement of the corrosion resistance on cut edges of the BaoAM® coating is greater than than of GL caoting.



试验条件：中性盐雾试验 ASTM B117，不封边

锌比指数定义：双面镀层重量 / 钢板厚度

Test conditions: neutral salt spray test (ASTM B117),exposed cut edges

Zn-ratio index: coating weight of two sides/steel sheet thickness

镀层种类 Coating type	镀层重量 (g/m²) Coating weight	板厚 (mm) Thickness	锌比指数 Zn-ratio index	450小时 450 h	780小时 780 h	1100小时 1100 h
BaoAM®	75/75	0.6	250			
GL	75/75	0.6	250			

镀层种类 Coating type	镀层重量 (g/m²) Coating weight	板厚 (mm) Thickness	锌比指数 Zn-ratio index	780小时 780 h	1000小时 1000 h	1400小时 1400 h
BaoAM®	90/90	0.5	360			
GL	90/90	0.5	360			

试验条件：中性盐雾试验 ASTM B117，不封边

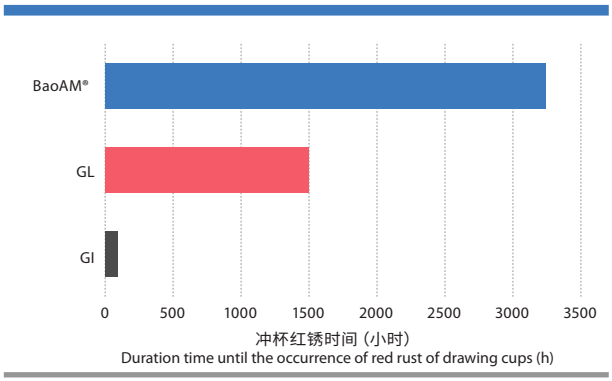
Test conditions: neutral salt spray test (ASTM B117),exposed cut edges

03

BaoAM® 冲杯耐蚀性 Corrosion resistance on drawing cups

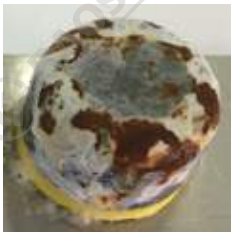
在中性盐雾试验条件下，
BaoAM® 镀层出现红锈的时间约比 GL 镀层提高一倍。

Under the condition of cyclic corrosion test, the duration time until the occurrence of red rust of BaoAM® coating is nearly twice as long as that of GL coating.

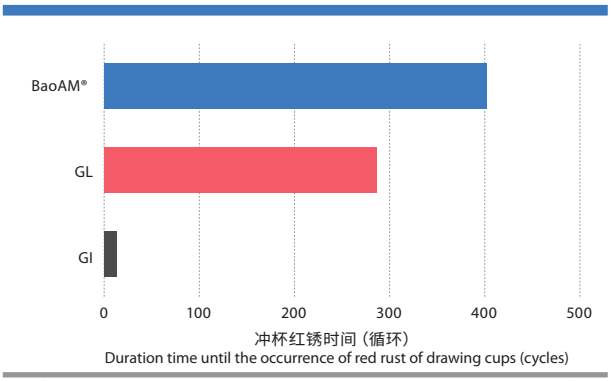


试验条件：中性盐雾试验 ASTM B117，封边
Test conditions: neutral salt spray test (ASTM B117), sealed cut edges

镀层种类 Coating type	镀层重量 (g/m²) Coating weight	1000小时 1000 h	1500小时 1500 h	3000小时 3000 h	3500小时 3500 h
BaoAM®	75/75				
GL	75/75				

镀层种类 Coating type	镀层重量 (g/m²) Coating weight	70小时 70 h	100小时 100 h		
GI	60/60				

试验条件：中性盐雾试验 ASTM B117，封边
Test conditions: neutral salt spray test(ASTM B117), sealed cut edges



试验条件：循环腐蚀试验 JIS H8502

Test conditions: cyclic corrosion test (JIS H8502)

镀层种类 Coating type	镀层重量 (g/m²) Coating weight	60循环 60 cycles	284循环 284 cycles	400循环 400 cycles	480循环 480 cycles
BaoAM®	75/75				
GL	75/75				

镀层种类 Coating type	镀层重量 (g/m²) Coating weight	15循环 15 cycles	35循环 35 cycles		
GI	60/60				

试验条件：循环腐蚀试验 JIS H8502

Test conditions: cyclic corrosion test (JIS H8502)

04

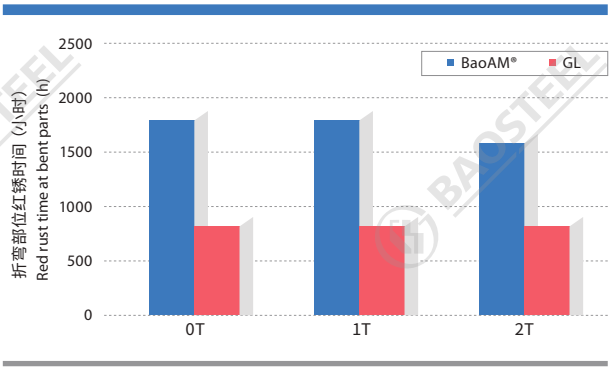
BaoAM® 折弯耐蚀性

Corrosion resistance on bends

在中性盐雾试验条件下，

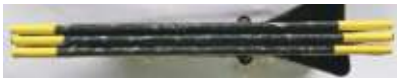
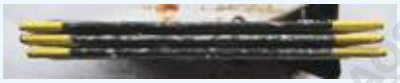
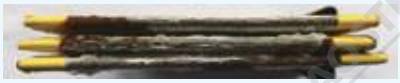
BaoAM® 镀层折弯后的耐蚀性约比 GL 镀层提高 1 倍。

Under the condition of neural salt spray test, the corrosion resistance on bends of BaoAM® coating is about twice as long as that of GL coating.



试验条件：中性盐雾试验 ASTM B117

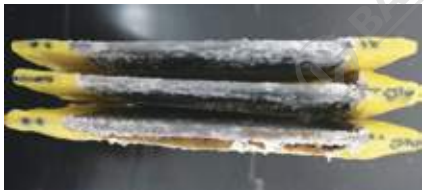
Test conditions: neutral salt spray test (ASTM B117)

	BaoAM® 75g/75g, 0T	GL 75g/75g, 0T
500小时 500 h		
1000小时 1000 h		
2000小时 2000 h		
2500小时 2500 h		

试验条件：中性盐雾试验 ASTM B117

Test conditions: neutral salt spray test(ASTM B117)

	BaoAM® 50g/50g, 0T	GL 50g/50g, 0T
700循环 700 cycles		

	BaoAM® 90g/90g, 0T	GL 90g/90g, 0T
700循环 700 cycles		

试验条件：循环腐蚀试验 JIS H8502

Test conditions: cyclic corrosion test (JIS H8502)

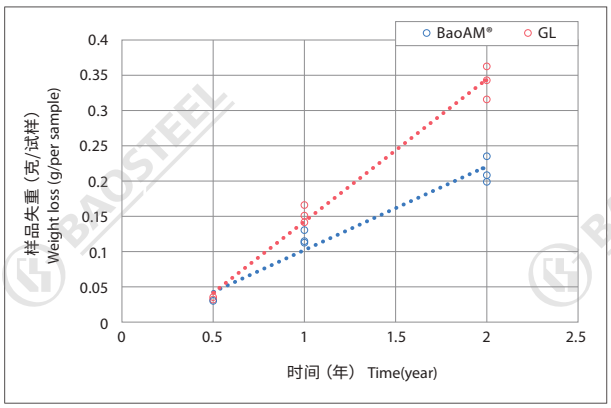
05

BaoAM® 耐大气腐蚀性

Atmospheric corrosion resistance

重庆江津户外暴晒 2 年的数据显示，BaoAM® 镀层试样的腐蚀失重约比 GL 镀层腐蚀失重减小了 1/3，且 BaoAM® 试样的切口红锈明显比 GL 轻。

The data of 2 years outdoor exposure in Jiangjin, Chongqing show that the corrosion weight loss of BaoAM® coating samples is about 1/3 lower than that of GL coatings, and the red rust on cut edges of BaoAM® samples is obviously not serious compared to that of GL coating.



地点：重庆江津，不封边

Location: Jiangjin, Chongqing　Sample : exposed cut edges

	江津, 1年 Jiangjin, 1 year
BaoAM®	
GL	

	万宁, 1年 Wanning, 1 year
BaoAM®	
GL	

样品信息：镀层厚度 75g/75g，钢板厚度 0.5mm

Sample information: coating weight : 75g/75g, steel sheet thickness: 0.5mm

BaoAM® 加工性 Processability

BaoAM® 镀层加工性与 GL 镀层相当。

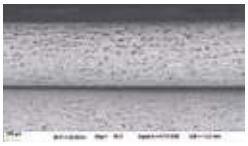
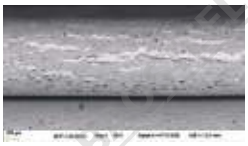
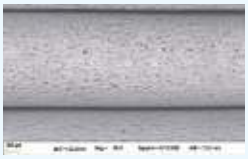
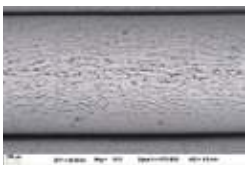
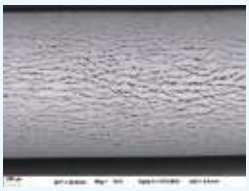
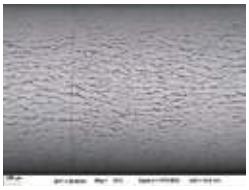
在相同的折弯条件下，BaoAM® 镀层折弯部位的裂纹比 GL 镀层更细密。

The processability of BaoAM® coating is comparable to that of GL coating.

Under the same bending conditions, the cracks at the bending area of BaoAM® coating are finer and denser than those of GL coating.

BaoAM®

GL

	BaoAM®	GL
0T		
1T		
2T		
3T		
4T		

07

BaoAM® 涂装后耐蚀性 Corrosion resistance of the painted coated steel

BaoAM® 镀层钢板非常适合涂漆后使用。

与 GL 镀层基板的同种彩涂板相比，以 BaoAM® 为基板的彩涂板的平面耐蚀性和切口耐蚀性均显著提高。

BaoAM® coated steel sheets are ideal for use after painting.

Compared to the color coated sheets with GL coating substrate, the corrosion resistance on flat surface and cut edges of the color coated sheets with BaoAM® substrate is significantly improved.

镀层种类 Coating type	镀层重量 (g/m²) Coating weight	480循环 480 cycles	630循环 630 cycles	872循环 872 cycles	1213循环 1213 cycles
BaoAM®	75/75				
GL	75/75				

试验条件：循环腐蚀试验 JIS H8502；涂层：聚酯白灰，封边

Test conditions: cyclic corrosion test(JIS H8502), whitegrey polyester painted, sealed cut edges

镀层种类 Coating type	镀层重量 (g/m²) Coating weight	401循环 401 cycles	728循环 728 cycles	936循环 936 cycles	1086循环 1086 cycles
BaoAM®	75/75				
GL	75/75				

试验条件：循环腐蚀试验 JIS H8502；涂层：聚酯白灰，划线，不封边

Test conditions: cyclic corrosion test(JIS H8502),
whitegrey polyester painted, line drawn on flat suface, exposed cut edges

BaoAM®

应用案例

Application cases

彩涂应用 Application of prepainted sheets

空调底板 Air conditioner base plate

屋面板 Buildings panel

若按 Q/BQB 425-2023 标准供货，执行如下：
If supply according to Q/BQB 425-2023 standard, as follows:

BaoAM® 可供规格
BaoAM® available specifications

项目 Classification	公称尺寸 Nominal size
公称厚度 Nominal thickness	0.3-1.6mm
公称宽度 Nominal width	700-1430mm
钢带内径 Nominal inside coil diameter	508/610mm

BaoAM® 供货牌号
BaoAM® available grades

牌号 Steel grades	用途 Usage
DC51D+AM	冷成形用 cold forming
DC52D+AM	
DC53D+AM	
DC54D+AM	
S250GD+AM	结构用 structure use
S300GD+AM	
S350GD+AM	
S450GD+AM	
S550GD+AM	

BaoAM® 镀层重量
BaoAM® acoating weight

镀层种类 Coating type	推荐的公称镀层重量 [a] g/m² Recommended nominal coating weight (g/m²)
铝锌合金镀层 Al-Zn alloy (GL)coating	50/50，60/60，75/75，90/90，100/100
铝锌镁合金镀层 Al-Zn-Mg alloy (BaoAM®)coating	40/40，50/50，60/60，75/75，90/90

50 g/m² 热镀铝锌合金镀层的镀层厚度约为 13.3μm
50 g/m² 热镀铝锌镁合金镀层的镀层厚度约为 13.7μm。

The thickness of 50g/m² Al-Zn(GL) coating on one side is about 13.3μm.
The thickness of 50g/m² Al-Zn-Mg (BaoAM®) coating on one side is about 13.7μm.

BaoAM® 力学性能 BaoAM® mechanical properties

牌号 Steel grade	拉伸试验 a,b,c Tensile test a,b,c		
	屈服强度MPa Yield strength (Mpa)	拉伸强度MPa Tensile strength(Mpa)	断后伸长率% A_{80mm} Elongation(A_{80mm}, %)
DC51D+AM	190 ～ 360	270 ～ 500	22
DC52D+AM	140 ～ 300	270 ～ 420	26
DC53D+AM	140 ～ 220	270 ～ 380	30
DC54D+AM	120 ～ 220	260 ～ 350	36

[a] 当屈服现象不明显时采用 $R_{P0.2}$，否则采用 R_{cL}。

[b] 拉伸试验试样为 GB/T 228.1 中的 P6 试样，试样方向为横向样。

[c] 当产品公称厚度大于 0.5mm，但小于等于 0.7mm 时，断后伸长率允许下降 2 个单位；当产品公称厚度不大于 0.5mm 时，断后伸长率允许下降 4 个单位。

[a] $R_{p0.2}$ should be used when there is no obvious yield point, otherwise R_{cL} is used.

[b] The test pieces are P6 samples specified in GB/T 228.1, and the direction of the sample is transverse.

[c] When the nominal thickness of the product is greater than 0.50 mm but less than or equal to 0.70 mm, the elongation is allowed to decrease by 2 units. When the nominal thickness of the product is less than or equal to 0.50 mm, the elongation is allowed to decrease by 4 units.

牌号 Steel grade	拉伸试验 a,b,c Tensile test a,b,c			
	屈服强度MPa不小于 Yield strength (Mpa) min	拉伸强度MPa不小于 Tensile strength(Mpa) min	断后伸长率%不小于 Elongation(A80mm, %) min	
			A_{80mm}	A_{50mm}
S250GD+AM[d]	250	330	19	—
S300GD+AM[d]	300	380	18	—
S350GD+AM[d]	350	420	16	—
S450GD+AM[d]	450	480	15	—
S550GD+AM[d]	550	550	—	2

[a] 拉伸试验试样为纵向样。

[b] 屈服现象采用 $R_{P0.2}$。

[c] 当产品公称厚度不大于 0.7mm，断后伸长率允许下降 2 个单位。

[d] 试样为 GB/T 228.1 中的 P6 试样 。

[e] 试样为 GB/T 228.1 中的 P17 试样 。

[f] 对于牌号为 S550GD+AM 的产品，当产品的厚度不大于 0.7mm 时，由于厚度减薄效应，导致伸长率过低，以致无法测得到屈服强度。此时，屈服强度用抗拉强度代替。

[a] The direction of the sample is longitudinal.

[b] $R_{p0.2}$ is used when there is yield point.

[c] When the nominal thickness of the product is less than or equal to 0.70 mm,the elongation is allowed to decrease by 2 units.

[d] The test pieces are P6 samples specified in GB/T 228.1.

[e] The sample is the P17 sample in GB/T 228.1.

[f] For the product S550GD+AM, when the thickness is not greater than 0.7mm, due to the thickness thinning effect, the elongation is too low for the yield strength to be measured. Thus, the yield strength is replaced by tensile strength.

BaoAM® 宽度允许偏差 BaoAM® allowable width tolerance

单位：mm　　Unit：mm

边缘状态 Edge condition	公称宽度 Nominal width	宽度允许偏差（PW. A） Allowable width tolerance (PW.A)
不切边（EM）	600～1200	0～+5
	＞1200～1500	0～+6
	＞1500	0～+7

BaoAM® 厚度允许偏差 BaoAM® allowable thickness tolerance

单位：mm　　Unit：mm

规定的最小屈服强度 MPa Specified minimum yield strength (MPa)	公称厚度 Nominal thickness	厚度允许偏差 Allowable thickness tolerance					
		普通精度（PT. A） General precision (PT.A)			高级精度（PT. B） HIgh precision (PT.B)		
		公称宽度 Nominal width			公称宽度 Nominal width		
		≤1200	＞1200～1500	＞1500	≤1200	＞1200～1500	＞1500
＜260	＞0.30～0.40	±0.03	±0.03	±0.04	±0.020	±0.025	±0.030
	＞0.40～0.60	±0.03	±0.04	±0.04	±0.025	±0.030	±0.035
	＞0.60～0.80	±0.04	±0.04	±0.05	±0.025	±0.030	±0.035
	＞0.80～1.00	±0.05	±0.06	±0.06	±0.030	±0.035	±0.040
	＞1.00～1.20	±0.06	±0.06	±0.07	±0.035	±0.040	±0.050
	＞1.20～1.60	±0.08	±0.08	±0.09	±0.040	±0.050	±0.060
	＞1.60～2.00	±0.09	±0.10	±0.11	±0.050	±0.060	±0.070
	＞2.00～2.50	±0.11	±0.12	±0.13	±0.070	±0.080	±0.090
	＞2.50～3.00	±0.13	±0.13	±0.15	±0.090	±0.100	±0.110
	＞3.00～3.50	±0.15	±0.17	±0.17	±0.120	±0.130	±0.130
260～＜360	0.30～0.40	±0.03	±0.04	±0.05	±0.025	±0.030	±0.035
	＞0.40～0.60	±0.04	±0.05	±0.05	±0.030	±0.035	±0.040
	＞0.60～0.80	±0.04	±0.05	±0.06	±0.030	±0.035	±0.045
	＞0.80～1.00	±0.05	±0.06	±0.07	±0.035	±0.040	±0.050

规定的最小屈服强度 MPa Specified minimum yield strength (MPa)	公称厚度 Nominal thickness	厚度允许偏差 Allowable thickness tolerance					
		普通精度（PT. A） General precision (PT.A)			高级精度（PT. B） HIgh precision (PT.B)		
		公称宽度 Nominal width			公称宽度 Nominal width		
		≤1200	>1200～1500	>1500	≤1200	>1200～1500	>1500
260～<360	>1.00～1.20	±0.06	±0.07	±0.08	±0.040	±0.050	±0.060
	>1.20～1.60	±0.08	±0.10	±0.11	±0.050	±0.060	±0.070
	>1.60～2.00	±0.11	±0.12	±0.13	±0.060	±0.070	±0.090
	>2.00～2.50	±0.13	±0.14	±0.15	±0.090	±0.100	±0.110
	>2.50～3.00	±0.15	±0.16	±0.17	±0.110	±0.120	±0.130
	>3.00～3.50	±0.18	±0.21	±0.21	±0.150	±0.160	±0.160
360～420	0.30～0.40	±0.04	±0.05	±0.05	±0.030	±0.035	±0.040
	>0.40～0.60	±0.05	±0.05	±0.06	±0.035	±0.040	±0.050
	>0.60～0.80	±0.05	±0.06	±0.07	±0.040	±0.050	±0.055
	>0.80～1.00	±0.06	±0.07	±0.08	±0.050	±0.055	±0.060
	>1.00～1.20	±0.08	±0.09	±0.10	±0.055	±0.065	±0.070
	>1.20～1.60	±0.10	±0.11	±0.12	±0.070	±0.075	±0.090
	>1.60～2.00	±0.13	±0.14	±0.15	±0.080	±0.090	±0.100
	>2.00～2.50	±0.15	±0.16	±0.17	±0.100	±0.110	±0.120
	>2.50～3.00	±0.17	±0.18	±0.19	±0.120	±0.130	±0.140
	>3.00～3.50	±0.22	±0.25	±0.25	±0.190	±0.200	±0.200
>420	0.30～0.40	±0.05	±0.06	±0.07	±0.035	±0.040	±0.050
	>0.40～0.60	±0.06	±0.06	±0.07	±0.040	±0.050	±0.060
	>0.60～0.80	±0.06	±0.07	±0.09	±0.050	±0.060	±0.070
	>0.80～1.00	±0.08	±0.09	±0.10	±0.060	±0.070	±0.080
	>1.00～1.20	±0.09	±0.10	±0.12	±0.070	±0.080	±0.100
	>1.20～1.60	±0.12	±0.13	±0.15	±0.080	±0.100	±0.110
	>1.60～2.00	±0.15	±0.16	±0.18	±0.100	±0.110	±0.130
	>2.00～2.50	±0.18	±0.19	±0.21	±0.120	±0.130	±0.150
	>2.50～3.00	±0.21	±0.22	±0.23	±0.150	±0.160	±0.170
	>3.00～3.50	±0.23	±0.25	±0.25	±0.190	±0.200	±0.200

BaoAM® 质量保证体系 BaoAM ® Quality Assurance System

宝钢股份拥有完善的质量保证体系，包括齐全的体系认证和产品认证。

BaoAM® 在中国范围为符合要求的产品提供 30 年质保承诺，其余可根据具体情况进行评估和出具。承诺书以最新公布版本为准。

BaoAM® 是环保产品，符合 ROHS 和 REACH 要求。


BAOSTEEL

宝钢高铝锌铝镁产品(BaoAM®)
30年质量承诺书

Baosteel Group has a comprehensive quality assurance system, including complete system certification and product certification.

BaoAM ® provides a 30-year warranty for qualified products in China, and other situations can be evaluated and issued based on specific circumstances.The warranty shall be subject to the latest published version.

BaoAM ® is an environmentally friendly product that meets the requirements of ROHS and REACH directives.


bsi.
Certificate of Registration


bsi.
Certificate of Registration


SGS


SGS

BAOSTEEL

关于宝钢高铝锌铝镁光板订货(公称)厚度的组成及吨钢展开(延展)面积的说明

Statement on the composition of the (nominal) thickness and expanded (extended) area of steel per ton of Baosteel Hot-Dip Aluminum-Zinc-Magnesium Alloy Coated Steel.

01 厚度组成 Thickness composition

宝山钢铁股份有限公司(以下简称宝钢)所生产的高铝锌铝镁光板,其订货(公称)厚度的组成如无特别约定,则都按照宝钢Q/BQB425标准6.2条款所描述的"6.2钢板及钢带的公称厚度指基板厚度和镀层厚度之和。"即TCT(Total Coated Thickness)厚度进行生产控制。

The composition of the (nominal) thickness of the Baosteel Hot-Dip Aluminum-Zinc-Magnesium Alloy Coated Steel produced by Baoshan Iron and Steel Co., Ltd. (hereinafter referred to as Baosteel) shall be in accordance with the 6.2 term of the Baosteel standard Q/BQB425, which states 'The nominal thickness of the steel plate and strip refers to the sum of the thickness of the base metal and the thickness of the coating', if there is no special agreement . That is, the thickness of TCT (Total Coated Thickness) is used for production control.

02 吨钢展开(延展)面积计算 Calculation of expanded (extended) area of steel per ton

高铝锌铝镁镀层厚度的计算,根据宝钢Q/BQB 425标准附录A的A.1所示为:"AM公称镀层厚度=[两面镀层公称重量之和(g/m^2)/50(g/m^2)]×13.7×10^{-3}(mm)",即50g/m^2的镀层厚度=0.0137mm;

基板厚度BMT(Base Metal thickness)=订货(公称)厚度TCT-镀层厚度;

因此:

钢卷米重=7.85(密度)×基板厚度+镀层公称重量

吨钢展开(延展)面积=1000kg/钢卷米重

The calculation of the thickness of the high-Aluminum Zinc-Aluminum-Magnesium coating is shown in A.I of Appendix A of the Baosteel standard Q/BQB 425, which states 'AM nominal coating thickness = [the sum of the nominal weight of the coating on both sides (g/m^2) / 50 (g/m^2)] x 13.7 x 10^{-3}(mm)'. That means the coating thickness of 50g/m^2 is 0.0137mm;

Base Metal Thickness (BMT) = order (nominal) thickness TCT — coating thickness;

therefore:

Steel coil weight per meter = 7.85 (density) x thickness + nominal weight of coating

Expanded (extended) area of steel per ton = 1000kg/steel coil weight per meter

03 计算示例 Calculation example

以高铝锌铝镁光板常规订货厚度0.5mm,AM150镀层75/75g/m^2为例:

镀层厚度=150/50×0.0137=0.0411mm;

基板厚度=0.5-0.0411=0.4589mm;

钢卷米重=7.85×0.4589+0.15=3.7524kg/m^2;

吨钢展开(延展)面积=1000/3.7524=266.5m^2。

另,因基板及镀层厚度存在正常的公差范围,因此吨钢展开(延展)面积也存在相应的误差。特此说明,供参考。

Take the regular high-Aluminum Zinc-Aluminum Magnesium sheet with the thickness of 0.5mm and coating weight of 75/75 g/m^2 (AM150) as an example:

Coating thickness=150/50 x0.0137=0.0411mm;

Base metal thickness=0.5-0.0411=0.4589mm;

Steel coil weight per meter =7.85 x 0.4589+0.15=3.7524 kg/m^2;

Expanded (extended) area of steel per ton = 1000/3.7524 = 266.5m^2.

In addition, due to the normal thickness tolerance of the base steel and coating, there is also a corresponding error for the expanded (extended) area of steel per ton. It is hereby stated for reference.

宝山钢铁股份有限公司

2020年8月

BaoAM® 注意事项 BaoAM® precautions in use

- 碱性介质的使用条件下慎用 BaoAM® 镀层钢板。
  Use BaoAM® coated steel sheet with caution under the condition of alkaline medium environment.
- 采用 BaoAM® 镀层钢板建筑的屋面应具有一定的坡度，有利于排水，表面腐蚀加剧。
  The roof of the building using BaoAM® coated steel sheet should have a certain slope, which is conducive to drainage.
- 避免直接接触湿的水泥和湿的木材、铅、铜、石墨。
  Avoid direct contact with wet cement and wet wood, lead, copper, graphite.
- 应尽可能使用切边板而避免在工地现场进行切割。
  Cutting sheets should be used whenever possible and cutting at the construction site should be avoided.
- 加工、堆放时应防止受潮和高温引起耐指纹膜发黑。
  During processing and stacking, prevent the anti-fingerprint film from turning black due to moisture and high temperature.
- 用于发泡粘接用途的 BaoAM® 镀层钢板，在第一次使用时要进行小批量试验，防止粘接性能不良。
  For the BaoAM® coated steel sheet used for foam bonding, a small batch test should be carried out when it is used for the first time to prevent poor bonding performance.
- 表面清洁不建议使用酒精类的溶剂进行擦拭、清洗，如需要使用请先进行小样试验，避免对表面皮膜造成损伤。
  It is not recommended to use alcohol-based solvents to wipe and clean the surface. If you need to use it, please conduct a test using small samples first to avoid damage to the surface film.
- 安装前保持板面干燥。
  Keep the sheet surface dry before installation.
- 不能用电锯等加工以免高温铁屑影响涂层。
  It cannot be processed with electric saws in case the high temperature iron filings affect the coating

Bao

订货所需信息 Information required for ordering

订货时用户需提供下列信息：
When ordering, customers need to provide the following information:

- **产品名称（钢板或钢带）**
  Product name (steel plate or strip)
- **本产品标准号**
  Standard number of this product
- **牌号**
  Grade
- **尺寸及其精度（包括厚度、宽度、长度、钢带内径等）**
  Size and its accuracy (including thickness, width, length, inner diameter of steel strip, etc.)
- **不平度精度**
  Waviness accuracy
- **镀层重量**
  Coating weight
- **表面处理**
  Surface treatment
- **表面质量**
  Surface quality
- **重量**
  weight
- **包装方式**
  Packing

AM®

宝山钢铁股份有限公司
http://www.baosteel.com

BAOSHAN IRON & STEEL CO., LTD.
http://www.baosteel.com

冷板销售部
CRS Sales Department
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宝钢服务热线
Baosteel Service Hot-line
400-820-8590

宝钢慧创平台
iBaosteel
http://www.ibaosteel.com

国内贸易公司 Domestic Sales Channels

上海宝钢钢材贸易有限公司
SHANGHAI BAOSTEEL STEEL PRODUCTS TRADING CO., LTD.
TEL: 021-26640916

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GUANGZHOU BAOSTEEL SOUTHERN TRADING CO., LTD.
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沈阳宝钢东北贸易有限公司
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TEL: 024-31391180

东北亚及澳洲大区 Northeast Asia and Oceania Region

宝和通商株式会社
HOWA TRADING CO., LTD.
TEL: 0081-3-32379121
FAX: 0081-3-32379123

首尔事务所
SEOUL OFFICE
TEL: 0082-2-5080893
FAX: 0082-2-5080891

BGM株式会社
BGM CO., LTD
TEL: 0082-70-44225903
FAX: 0082-31-3514558

高雄事务所
KAOHSIUNG OFFICE
TEL: 00886-7-3356606
FAX: 00886-7-3356609

宝钢澳大利亚贸易有限公司
BAO AUSTRALIA PTY LTD.
TEL: 0061-8-94810535
FAX: 0061-8-94810536

东南亚及南亚大区 South East Asia and South Asia Region

宝钢新加坡贸易有限公司
BAOSTEEL SINGAPORE PTE LTD.
TEL: 0065-63336818
FAX: 0065-63336819

宝新越南代表处
VIETNAM OFFICE
TEL: 0084-8-9100126
FAX: 0084-8-9100124

宝新泰国代表处
THAILAND OFFICE
TEL: 0066-2-6368485
FAX: 0066-2-2348989

宝新河内代表处
HANOI OFFICE
TEL: 0084-24-62694200
FAX: 0084-24-62691392

宝钢印尼钢材加工有限公司(含印尼代表处)
PT. BAOSTEEL INDONESIA STEEL SERVICE CENTER (INDONESIA OFFICE)
TEL: 0062-21-3040 8575
FAX: 0062-21-3040 8583

宝钢印度有限公司(含SANAND加工中心)
BAOSTEEL INDIA COMPANY PRIVATE LTD. (SANAND STEEL SERVICE CENTER)
TEL: 0091-22-30071700
FAX: 0091-22-30071777

宝新马来西亚代表处
MALAYSIA OFFICE
TEL: 0060-32-2016986

欧非中东大区 Europe, Africa & Middle East Region

宝钢欧洲有限公司
BAOSTEEL EUROPE GMBH
TEL: 0049-89-32709090
FAX: 0049-89-3270909130

宝钢意大利钢材集散中心有限公司
BAOSTEEL ITALIA DISTRIBUTION CENTER SPA
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宝钢西班牙有限公司
BAOSTEEL ESPAÑA, S.L.
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FAX: 0034-93-4119330

宝钢中东公司
BAOSTEEL MIDDLE EAST FZE
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FAX: 00971-4-8840485

宝欧俄罗斯代表处
RUSSIA OFFICE
TEL: 7-499-2585602
FAX: 7-499-2585602

宝欧南非代表处
SOUTH AFRICA OFFICE
TEL: 0027-11-7839985
FAX: 0027-11-7842408

宝欧土耳其代表处
TÜRKIYE OFFICE
TEL: 0090-212-3440067
FAX: 0090-212-3440068

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