

DC51D+ZF钢板

产品名称	DC51D+ZF钢板
公司名称	上海松榕实业发展有限公司
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产品详情

热浸镀铝锌合金钢板及钢带的术语和定义

1术语和定义 3.1 热镀铝锌合金镀层 hot-dip aluminum-zinc alloy coating(az) 连续热镀铝锌生产线生产的、由铝锌合金组成的镀层，镀层中铝的质量百分数约为 55%，硅的质量百分数约为 1.6%，其余成分为锌。

2 拉伸应变痕 stretcher strain marks 冷加工成形过程中，由于时效的原因，钢板或钢带出现不均匀变形，导致钢板或钢带发生局部塑性变形，最终会在钢板或钢带表面呈现与拉伸方向成一定角度的一系列平行线状的褶皱或不规则折线、不规则表面扭曲等有损表面外观质量的缺陷。

内磁屏蔽用冷轧钢带的术语和定义 1术语和定义 3.1矫顽力 coercivity 从试样的稳定饱和磁化状态，沿饱和磁滞回线单调地改变磁场，使磁极化强度沿饱和磁滞回线减小到零时的磁场强度称为矫顽力，用 h_c 表示，单位为安每米(a/m)。 2 磁化特性(磁感应强度)magnetic polarization(magnetic flux density) 磁化特性通常用正常磁化曲线上，对应于给定磁场强度的磁感应强度(磁极化强度)来表示。磁感应强度的符号为 b_8 ，单位为t(特斯拉)。例： b_8 表示对应于磁场强度为 800a/m 时的磁感应强度。

热冲压用钢板及钢带的术语和定义 1 术语和定义 3.1 热冲压成形 hot stamping (hs), press hardening (p h) 热冲压成形是将钢加热到奥氏体化温度以上，快速移动到模具上，高温坯料在模具内被冲压成形的同时完成成形和淬火的一种工艺。

2 热冲压用钢 适用于热冲压成形用途的钢。

冷轧普通高强钢钢板及钢带的术语和定义

1 加磷高强度钢 rephosphorized steels(p) 在低碳钢或超低碳钢中，主要通过添加最大不超过 0.12%的磷等固溶强化元素来提高钢的强度。这种钢具有高强度和良好的冷成形性能，且具备良好的耐冲击和抗疲劳性能，通常用于汽车覆盖件和结构件制作。 1.1各向同性高强度钢 isotropic steels(i) 各向同性高强钢是对塑性应变比(r 值)进行限定的钢。由于这种钢的各向同性性能，因此具有良好的拉伸成形

性能，适合于汽车外覆盖件的制作。

1.2 高强度无间隙原子钢 high strength interstitial free

steels(y) 通过控制钢中的化学成分来改善钢的塑性应变比(r 值)和应变硬化指数(n 值)。由于钢中元素的固溶强化和无间隙原子的微观结构，这种钢即具有高强度又具有非常好的冷成型性能，通常用来制作需要深冲压的复杂部件。

1.3 高强度烘烤硬化钢 bake hardening steels(b) 在钢中保留一定量的固溶碳、氮原子，同时可通过添加磷、锰等强化元素来提高强度。加工成形后，在一定温度下烘烤后，由于时效硬化使钢的屈服强度进一步升高。通常应用于汽车外覆盖件。1.4 高强度低合金钢 high strength low alloy steels(la) 在低碳钢中，通过单一或复合添加铌，钛，钒等微合金元素，形成碳氮化合物粒子析出进行强化，同时通过微合金元素的细化晶粒作用，以获得较高的强度。

热镀锌/锌铁合金镀层钢板的术语和定义

1 术语和定义 下列术语和定义适用于本技术条件。热镀纯锌镀层 hot-dip zinc coating(z) 热镀锌生产线上，将经过预处理的钢带浸入熔融锌液中所得到的镀层。熔融锌液中锌含量应不小于 99%。

1.2 热镀锌铁合金镀层 hot-dip zinc-iron alloy

coating(zf) 热镀锌生产线上，将经过预处理的钢带浸入熔融锌液中所得到的镀层。熔融锌液中锌含量应不小于 99%。随后，通过合金化处理工艺在整个镀层上形成锌铁合金层，合金镀层中铁含量通常为 7~15%。

1.3 无间隙原子高强度钢 high strength interstitial free steels (y) 通过控制钢中的化学成分来改善钢的塑性应变比(r 值)和应变硬化指数(n 值)。由于钢中元素的固溶强化和无间隙原子的微观结构，这种钢既具有高强度，又具有非常好的冷成型性能，通常用来制作需要深冲压的复杂部件。

1.4 烘烤硬化钢 bake hardening steels(b) 在低碳钢或超低碳钢中保留一定量的固溶碳、氮原子，同时可通过添加磷、锰等固溶强化元素来提高度。加工成形后，在一定温度下烘烤后，由于时效硬化使钢的屈服强度进一步升高。

1.5 高强度低合金钢 high strength low alloy steels(la) 在低碳钢或超低碳钢中，通过单一或复合添加铌、钛、钒等微合金元素，形成碳氮化合物粒子析出进行强化。同时，通过微合金元素的细化晶粒作用，以获得较高的强度。

1.6 双相钢 dual phase steels(dp) 钢的显微组织主要为铁素体和马氏体，马氏体组织以岛状弥散分布在铁素体基体上双相钢具有低的屈强比和较高的加工硬化指数以及烘烤硬化值，是结构类零件首选材料之一。

1.7 复相钢 complex phase steels(cp) 钢的显微组织主要为铁素体和(或)贝氏体组织。在铁素体和(或)贝氏体基体上，通常分布少量的马氏体、残余奥氏体和珠光体组织。通过添加微合金元素 ti 或 nb，形成细化晶粒或析出强化的效应。这种钢具有非常高的抗拉强度。与同等抗拉强度的双相钢相比，其屈服强度明显要高很多。这种钢具有较高的能量吸收能力和较高的残余应变能力。

1.8 淬火延性钢 quenching and partitioning steel(qp) 钢是采用淬火-

配分工艺生产的一类高成形性超高强钢。钢的显微组织为马氏体+铁素体 残余奥氏体等多相复合组成，利用马氏体带来的超高强度和残余奥氏体的相变诱导塑性 (trip)效应，可获得比传统超高强钢更优越的成形性能。qp 钢无时效，具有中等屈强比和较高的加工硬化性能，适合用于外形相对复杂、强度要求高的车身骨架件和安全件。

1.9 拉伸应变痕 stretcher strain marks 由于时效的原因，冷成形加工过程中，钢板或钢带出现不均匀变形，导致钢板或钢带发生局部塑性变形，最终会在钢板或钢带表面呈现与拉伸方向成一定角度的一系列平行线状的褶皱或不规则折线、不规则表面扭曲等有损表面外观质量的缺陷。

2.0 镀层重量 coating

mass 即双面镀层重量之和，以每面镀层重量的形式分别表示，单位为克/平方米(g/m²)。

部分材料牌号

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spcc	dc01	blc
spcd	dc03	bld
spce	dc04	busd
spcf	dc05	bufd
spcg	dc06	bsufd
hc180p	dc07	cr180b0
b180p2	s215g	cr210p
hc220p	s245g	cr210if
b220p2	s325g	cr210b2
hc260p	st37-2g	cr210b0
hc300p	st44-3g	cr240p
hc220i	st52-3g	cr240if
hc260i	b240zk	cr240b2
hc180y	b280vk	cr240b0
b170p1	dd11	cr270p
hc220y	dd12	cr270b2
b210p1	dd13	cr270b0
hc260y	dd14	cr300b2
b250p1	cr1	cr300b0
b140h1	cr2	cr240la
hc180b	cr3	cr270la
b180h1	cr4	cr300la
hc220b	cr5	cr340la
hc260b	hr0	cr380la
hc300b	hr1	cr420la
hc260la	hr2	cr500la
hc300la	hr3	hr240la
hc340la	cr180	hr270la
b340la	cr210	hr300la
hc380la	cr240	hr340la
hc420la	cr270	hr380la
b410la	cr300	hr420la
hc460la	cr180p	hr500la
hc500la	cr180if	hr550la
hc550la	cr180b2	cr dp450
dc51d+z	dc51d+zf	dd51d+z
dc52d+zf	dc53d+z	dc53d+zf
dc54d+zf	dd54d+z	dc56d+z
dc57d+z	dc57d+zf	hc260yd+z
hc220bd+z	hc220bd+zf	hc340lad+z

宝钢汽车钢 blc,bld,busd,bufd,b240zk,b280vk,st37-2g,st44-3g,st52-3g,hc180p,b180p2 , hc220p,b220p2 , hc260p,hc300p,hc220i,hc260i,hc180y,b170p1, hc220y,b210p1, hc260y,b250p1,b140h1, b180h1,b180h2, hc180b, hc220b, hc260b, hc300b, hc380/590tr, hc400/690tr, hc420/780tr, hc450/980tr, hc250/450dp, hc300/500dp, hc280/590dp, hc340/590dp, b340/590dp, hc550/690dp, hc420/780dp, hc500/780dp, b400/780dp, hc550/980dp, hc820/1180dp, hc260la, hc300la, hc340la, b340la, hc380la, hc420la, b410la, hc460la, hc500la, dc51d+z, dc51d+zf, dc52d+z, dc52d+zf, dc53d+z, dc53d+zf, dc54d+z, dc54d+zf, dc56d+z, dc56d+zf, dc57d+z, dc57d+zf, s220gd+z, s220gd+zf, s250gd+z, s250gd+zf, s280gd+z, s280gd+zf, s320gd+z, s320gd+zf, s350gd+z, s350gd+zf, s550gd+z, hc180yd+z, hc180yd+zf, hc220yd+z, hc220yd+zf, hc260yd+z, hc260yd+zf, hc180bd+z, hc180bd+zf, hc220bd+z, hc220bd+zf, hc260bd+z, hc260bd+zf, hc300bd+z, hc300bd+zf, hc260lad+z, hc260lad+zf, hc300lad+z, hc300lad+zf, hc340lad+z, hc340lad+zf, hc380lad+z, hc380lad+zf, hc380lad+z, hc420lad+z, hc420lad+zf, hc420lad+z, hc420lad+zf, hc250/450dpd+z, hc250/450dpd+zf, hc300/500dpd+z, hc300/500dpd+zf, hc280/590dpd+z, hc280/590dpd+zf, hc340/590dpd+z, hc340/590dpd+zf, b340/590dpd+z, b340/590dpd+zf, hc420/780dpd+z, hc420/780dpd+zf, hc550/980dpd+z, hc380/590trd+z, hc380/590trd+zf, hc400/690trd+z, hc400/690trd+zf, hc420/780trd+z, hc420/780trd+zf, hc350/600cpd+z, hc350/600cpd+zf, hc500/780cpd+z, hc500/780cpd+zf, hc700/980cpd+z, hc700/980cpd+zf, hd620/750cpd+z, hd620/750cpd+zf, hd680/780cpd+z, hd680/780cpd+zf, saph310, saph370, saph400, saph440, spfh540, spfh590, qste340tm, qste380tm, qste420tm, qste460tm, qste500tm, s315mc, s355mc, s420mc, s460mc, s500mc, s550mc, s600mc, s650mc, s700mc, br330/580dp, br450/780dp, br400/590tr, br450/780tr, br300/450he, br440/580he, br600/780he, br900/1200ms, br650/780cp, br720/950cp, q/bqb419-2014-hc180p, q/bqb419-2014-b180p2, q/bqb419-2014-hc220p, q/bqb419-2014-b220p2, q/bqb419-2014-hc260p, q/bqb419-2014-hc300p, q/bqb419-2014-hc220i, q/bqb419-2014-hc260i, q/bqb419-2014-hc180y, q/bqb419-2014-b170p1, q/bqb419-2014-hc220y, q/bqb419-2014-b210p1, q/bqb419-2014-hc260y, q/bqb419-2014-b250p1, q/bqb419-2014-b140h1, q/bqb419-2014-hc180b, q/bqb419-2014-b180h1, q/bqb419-2014-b180h2, q/bqb419-2014-hc220b, q/bqb419-2014-hc260b, q/bqb419-2014-hc300b, q/bqb419-2014-hc260la, q/bqb419-2014-hc300la, q/bqb419-2014-hc340la, q/bqb419-2014-b340la, q/bqb419-2014-hc380la, q/bqb419-2014-hc420la, q/bqb419-2014-b410la, q/bqb419-2014-hc460la, q/bqb419-2014-hc500la, q/bqb419-2014-hc550la, q/bqb410-2014-s215g, q/bqb410-2014-s245g, q/bqb410-2014-s325g, q/bqb410-2014-st37-2g, q/bqb410-2014-st44-3g, q/bqb410-2014-st52-3g, q/bqb410-2014-b240zk, q/bqb410-2014-b280vk, q/bqb418-2014-hc250/450dp, q/bqb418-2014-hc290/490dp, q/bqb418-2014-hc340/590dp, q/bqb418-2014-b340/590dp, q/bqb418-2014-b400/780dp, q/bqb418-2014-hc420/780dp, q/bqb418-2014-hc500/780dp, q/bqb418-2014-hc550/980dp, q/bqb418-2014-hc550/980dp-el, q/bqb418-2014-hc650/980dp, q/bqb418-2014-hc820/1180dp, q/bqb418-2014-hc700/900ms, q/bqb418-2014-hc700/980ms, q/bqb418-2014-hc860/1100ms, q/bqb418-2014-hc950/1180ms, q/bqb418-2014-hc1030/1300ms, q/bqb418-2014-hc1150/1400ms, q/bqb418-2014-hc1200/1500ms, q/bqb418-2014-hc380/590tr, q/bqb418-2014-hc400/690tr, q/bqb418-2014-hc420/780tr, q/bqb418-2014-hc350/600cp, q/bqb418-2014-hc500/780cp, q/bqb418-2014-hc700/980cp, q/bqb418-2014-hc600-980qp, q/bqb418-2014-hc600-980qp-el, q/bqb418-2014-hc820/1180qp, q/bqb418-2014-hc820/1180qp-el, q/bqb420-2014-dc51d+z, q/bqb420-2014-dc51d+zf, q/bqb420-2014-dd51d+z, q/bqb420-2014-dc52d+z, q/bqb420-2014-dc52d+zf, q/bqb420-2014-dc53d+z, q/bqb420-2014-dc53d+zf, q/bqb420-2014-dc54d+z, q/bqb420-2014-dc54d+zf, q/bqb420-2014-dd54d+z, q/bqb420-2014-dc56d+z, q/bqb420-2014-dc56d+zf, q/bqb420-2014-dc57d+z, q/bqb420-2014-dc57d+zf, qbqb420-2014-hc180yd+z, qbqb420-2014-hc180yd+zf, qbqb420-2014-hc220yd+z, qbqb420-2014-hc220yd+zf, qbqb420-2014-hc260yd+z, qbqb420-2014-hc260yd+zf, qbqb420-2014-hc180bd+z, qbqb420-2014-hc180bd+zf, qbqb420-2014-hc220bd+z, qbqb420-2014-hc220bd+zf, qbqb420-2014-hc260bd+z, qbqb420-2014-hc260bd+zf, qbqb420-2014-hc300bd+z, qbqb420-2014-hc300bd+zf, qbqb420-2014-hc260lad+z, qbqb420-2014-hc260lad+zf, qbqb420-2014-hc300lad+z, qbqb420-2014-hc300lad+zf, qbqb420-2014-hc340lad+z, qbqb420-2014-hc340lad+zf, qbqb420-2014-hd340lad+z, qbqb420-2014-hc380lad+z, qbqb420-2014-hc380lad+zf, qbqb420-2014-hc420lad+z, qbqb420-2014-hc420lad+zf, qbqb420-2014-hd410lad+z, qbqb420-2014-hc460lad+z, qbqb420-2014-hc460lad+zf, qbqb420-2014-hc500lad+z, qbqb420-2014-hc500lad+zf, qbqb420-2014-hd550lad+z, 通用汽车钢

gmw2m-st-s-cr1-hd40g40g-u gmw2m-st-s-cr2-hd40g40g-u gmw2m-st-s-cr3-hd40g40g-u gmw2m-st-s-cr4-hd40g40g-u gmw2m-st-s-cr5-hd40g40g-u gmw2m-st-s-cr1-hd40g40g-u gmw2m-st-s-cr1-hd90g90g-u gmw2m-st-s-cr2-hd90g90g-u gmw2m-st-s-cr3-hd90g90g-u gmw2m-st-s-cr4-hd90g90g-u gmw2m-st-s-cr5-hd90g90g-u gmw2m-st-s-cr1-hd60g60g-u gmw2m-st-s-cr2-hd60g60g-u gmw2m-st-s-cr3-hd60g60g-u gmw2m-st-s-cr4-hd60g60g-u gmw2m-st-s-cr5-hd60g60g-u gmw2m-st-s-cr1-hd70g70g-u gmw2m-st-s-cr2-hd70g70g-u , gmw2m-st-s-cr3-hd70g70g-u gmw2m-st-s-cr4-hd70g70g-u , gmw2m-st-s-cr5-hd70g70g-u gmw3032m-st-s-270la-hd60g60g-u , gmw3032m-st-s-cr180b2-hd60g60g-u , gmw3032m-st-s-210p-hd60g60g-u gmw3032m-st-s-cr180if-hd60g60g-u gmw3032m-st-s-cr210if-hd60g60g-u gmw3032m-st-s-cr240if-hd60g60g-u gmw3032m-st-s-cr180b2-hd60g60g-u gmw3032m-st-s-cr210b2-hd60g60g-u gmw3032m-st-s-cr270b2-hd60g60g-u gmw3032m-st-s-cr300b2-hd60g60g-u gmw3032m-st-s-cr270la-hd60g60g-u gmw3032m-st-s-cr300la-hd60g60g-u gmw3032m-st-s-hr340la-hd60g60g-u gmw3032m-st-s-cr340la-hd60g60g-u gmw3032m-st-s-cr380la-hd60g60g-u gmw3032m-st-s-cr420la-hd60g60g-u gmw3032m-st-s-hr420la-hd60g60g-u gmw3032m-st-s-hr550la-hd60g60g-u gmw3032m-st-s-cr180if-hd70g70g-u gmw3032m-st-s-cr210if-hd70g70g-u gmw3032m-st-s-cr240if-hd70g70g-u gmw3032m-st-s-cr180b2-hd70g70g-u gmw3032m-st-s-cr210b2-hd70g70g-u gmw3032m-st-s-cr270b2-hd70g70g-u gmw3032m-st-s-cr300b2-hd70g70g-u gmw3032m-st-s-cr270la-hd70g70g-u gmw3032m-st-s-cr300la-hd70g70g-u gmw3032m-st-s-hr340la-hd70g70g-u gmw3032m-st-s-cr340la-hd70g70g-u gmw3032m-st-s-cr380la-hd70g70g-u gmw3032m-st-s-cr420la-hd70g70g-u gmw3032m-st-s-cr500la-hd70g70g-u gmw3032m-st-s-cr550la-hd70g70g-u gmw3032m-st-s-cr650la-hd70g70g-u gmw3032m-st-s-hr420la-hd70g70g-u gmw3032m-st-s-hr550la-hd70g70g-u gmw3032m-st-s-cr180p-hd70g70g-u gmw3032m-st-s-cr240p-hd70g70g-u gmw3032m-st-s-cr270p-hd70g70g-u gmw3032m-st-s-cr180p-hd60g60g-u gmw3032m-st-s-cr240p-hd60g60g-u gmw3032m-st-s-cr270p-hd60g60g-u gmw2m-st-s-cr1-hd50g50g-u gmw2m-st-s-cr2-hd50g50g-u , gmw2m-st-s-cr3-hd50g50g-u gmw2m-st-s-cr4-hd50g50g-u , gmw2m-st-s-cr5-hd50g50g-u gmw3032m-st-s-250la-hd50g50g-u , gmw3032m-st-s-cr180b2-hd50g50g-u , gmw3032m-st-s-210p-hd50g50g-u gmw3032m-st-s-cr180if-hd50g50g-u gmw3032m-st-s-cr210if-hd50g50g-u gmw3032m-st-s-cr240if-hd50g50g-u gmw3032m-st-s-cr180b2-hd50g50g-u gmw3032m-st-s-cr210b2-hd50g50g-u gmw3032m-st-s-cr250b2-hd50g50g-u gmw3032m-st-s-cr300b2-hd50g50g-u gmw3032m-st-s-cr250la-hd50g50g-u gmw3032m-st-s-cr300la-hd50g50g-u gmw3032m-st-s-hr340la-hd50g50g-u gmw3032m-st-s-cr340la-hd50g50g-u gmw3032m-st-s-cr380la-hd50g50g-u gmw3032m-st-s-cr420la-hd50g50g-u gmw3032m-st-s-hr420la-hd50g50g-u gmw3032m-st-s-hr550la-hd50g50g-u gmw3399m-st-s-cr450t/250y-dp-hd50g50g-u gmw3399m-st-s-cr780t/420y-dp-hd50g50g-u gmw3399m-st-s-cr590t/280y-dp-hd50g50g-u gmw3399m-st-s-cr590t/340y-dp-hd50g50g-u gmw3399m-st-s-cr780t/420y-dp-hd50g50g-u gmw3399m-st-s-cr780t/500y-dp-hd50g50g-u gmw3399m-st-s-cr980t/550y-dp-hd50g50g-u gmw3399m-st-s-cr590t/380y-tr-hd50g50g-u gmw3399m-st-s-cr690t/410y-tr-hd50g50g-u gmw3399m-st-s-cr780t/440y-tr-hd50g50g-u gmw3399m-st-s-cr980t/500y- mp-lce hd50g50g gmw3399m-st-s-cr450t/250y-dp-hd60g60g-u gmw3399m-st-s-cr780t/420y-dp-hd60g60g-u gmw3399m-st-s-cr590t/280y-dp-hd60g60g-u gmw3399m-st-s-cr590t/340y-dp-hd60g60g-u gmw3399m-st-s-cr780t/420y-dp-hd60g60g-u gmw3399m-st-s-cr780t/500y-dp-hd60g60g-u gmw3399m-st-s-cr980t/550y-dp-hd60g60g-u gmw3399m-st-s-cr590t/380y-tr-hd60g60g-u gmw3399m-st-s-cr690t/410y-tr-hd60g60g-u gmw3399m-st-s-cr780t/440y-tr-hd60g60g gmw3399m-st-s-cr450t/250y-dp-hd70g70g-u gmw3399m-st-s-cr780t/420y-dp-hd70g70g-u gmw3399m-st-s-cr590t/280y-dp-hd70g70g-u gmw3399m-st-s-cr590t/340y-dp-hd70g70g-u gmw3399m-st-s-cr780t/420y-dp-hd70g70g-u gmw3399m-st-s-cr780t/500y-dp-hd70g70g-u gmw3399m-st-s-cr980t/550y-dp-hd70g70g-u gmw3399m-st-s-cr590t/380y-tr-hd70g70g-u gmw3399m-st-s-cr690t/410y-tr-hd70g70g-u gmw3399m-st-s-cr780t/440y-tr-hd70g70g-u gmw3399m-st-s-cr980t/700y- mp-lce hd70g70g

gmw3399m-st-s-cr450t/250y-dp gmw3399m-st-s-cr490t/290y-dp gmw3399m-st-s-cr590t/280y-dp gmw3399m-st-s-cr590t/340y-dp gmw3399m-st-s-cr690t/550y-dp gmw3399m-st-s-cr780t/420y-dp gmw3399m-st-s-cr780t/500y-dp gmw3399m-st-s-cr980t/550y-dp gmw3399m-st-s-cr980t/700y-dp

gmw2m-st-s cr1 uncoated gmw2m-st-s cr2 uncoated , gmw2m-st-s cr3 uncoated gmw2m-st-s cr4 uncoated , gmw2m-st-s cr5 uncoated gmw2m-st-s cr1 uncoated ,

gmw3032m-st-s-cr180b2-uncoated-u

gmw3032m-st-s-210p-uncoated-u
gmw3032m-st-s-cr180if-uncoated-u
gmw3032m-st-s-cr210if-uncoated-u
gmw3032m-st-s-cr240if-huncoated-u
gmw3032m-st-s-cr180b2-uncoated-u
gmw3032m-st-s-cr210b2-uncoated-u
gmw3032m-st-s-cr250b2-uncoated-u
gmw3032m-st-s-cr300b2-uncoated-u
gmw3032m-st-s-cr250la-uncoated-u
gmw3032m-st-s-cr300la-uncoated-u
gmw3032m-st-s-hr340la-uncoated-u
gmw3032m-st-s-cr340la-uncoated-u
gmw3032m-st-s-cr380la-uncoated-u
gmw3032m-st-s-cr420la-uncoated-u
gmw3032m-st-s-hr420la-uncoated-u
gmw3032m-st-s-hr550la-uncoated-u
gmw3032m-st-s-hr650la-uncoated-u

, gmw2m-st-s cr1 uncoated , gmw2m-st-s cr1 gmw11m eg50g50ge , gmw2m-st-s cr2 gmw11m eg50g50ge
, gmw2m-st-s cr3 gmw11m eg50g50ge , gmw2m-st-s cr4 gmw11m eg50g50ge , gmw2m-st-s cr5 gmw11m
eg50g50ge , gmw2m-st-s cr1 gmw11m eg60g60ge , gmw2m-st-s cr2 gmw11m eg60g60ge , gmw2m-st-s cr3
gmw11m eg60g60ge , gmw2m-st-s cr4 gmw11m eg60g60ge , gmw2m-st-s cr5 gmw11m eg60g60ge gmw2m-st-s cr1
eg50g50ge , gmw2m-st-s cr2 eg50g50ge , gmw2m-st-s cr3 eg50g50ge , gmw2m-st-s cr4 eg50g50ge gmw2m-st-s
cr5 eg50g50ge , gmw2m-st-s cr1 eg60g60ge , gmw2m-st-s cr2 eg60g60ge , gmw2m-st-s cr3 eg60g60ge , gmw2m-
st-s cr4 eg60g60ge , gmw2m-st-s cr5 eg60g60ge 日系汽车钢 jsc270c jsc270d jsc270e jsc270f jsc270dg jsc270h
jsc340w jsc340h jsc340p jsc370w jsc370p jsc390w jsc390p jsc440w jsc440p jsc590r jsc590y jsc780y jsc980y jsc1180y
jsh270c jsh270d jsh270e jsh310w jsh370w jsh400w jsh440w jsh440r jsh440b saph440bh jsh490w jsh490r jsh490b
jsh540w jsh540r jsh540y jsh540b jsh590w jsh590r jsh590y jsh780w jsh780r jsh780 yzste340 zste380 zste420 zste460
jac270c , spcc spcc , spcd , spce , spcen , spfc340 , spfc340h , spfc370 , spfc390 , spfc440 , spfc490 , spfc540 ,
spfc590 , spfc590y , spfc780 , spfc980 , ss330 , ss400 , sphc ,
sphd , sphe , saph310 , saph370 , saph440 , spfh490 , spfh540 , spfh540y , spfh590 , spfh590y ,
secc20/20 , secc20/20 , secd20/20 , secen20/20 , sehc , sehd , sehe。 sefc 370~980y。 seph310~440
sefh490~540。 (asp5) , sgc440 f04 , sa1c , sp129 , sp121 , sp122 , sp123 , sp124 , sp131-340 , sp132-340 , sp135
-340 , sp131-370 , sp132-370 , sp150-390 , sp152-440 , sp150-490 , sp150-540 , sp151-590 , sp153-590z , sp153
-780 , sp150-980 , sp211 , sp212 , rp221 sp221 , rp222 sp222 , rp223 sp223 , sp230-310 , rp231-370 , sp231-37

0 , sp230-400 , rp231-440 , sp231-440f , sp250-490 , rp251-540 , sp251-540 , rp252-540 , sp252-540f
rp253-590 , sp253-590 , rp254-590 , sp254-590 , sp629 , sp621 , sp622 , sp623 , sp606 , sp607 , sp608 , sp600-
370~980 , sp605-310~540 , sp709 , sp70 , sp702? , sp706 , sp789 , sp781 , sp782 , rp791
sp791 , sp781-340 , sp782-340.sp785-340 , sp781-390 , sp782-390 , sp783 , sp784 , rp791-440 , sp791-440
jac270d jac270e jac270f jac340w jac340p jac340h jac390w jac390p 大众汽车钢

vw50111 st02z-100na-o,vw50111 st03z-100na-o,vw50111 st04z-100na-o,vw50111 st05z-100na-o.vw50111
st06z-100na-o,vw50111 st03z-100na-o.vw50111 st02z-100na-o , vw50111 st03z-100na-o , vw50111 st04z-100na-
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vw50065-cr2-gi40/40 , vw50065-cr3-gi40/40 , vw50065-cr4-gi40/40 ,
vw50065-cr5-gi40/40 , vw50065-cr6-gi40/40 , vw50065-cr160if-gi40/40 , vw50065-cr180if-
gi40/40 , vw50065-cr210if-gi40/40 , vw50065-cr160if-gi40/40 , vw50065-cr180if-gi40/40 , vw50065-cr210if-
gi40/40 , vw50065-cr240if-gi40/40 , vw50065-cr180bh-gi40/40 , vw50065-cr210bh-gi40/40 , vw50065-cr240bh-
gi40/40 , vw50065-cr210bh-gi40/40 , vw50065-cr210p-gi40/40 ,vw50065-cr240p-gi40/40,vw50065-cr240la-
gi40/40,vw50065-cr270la-gi40/40.vw50065-cr300la-gi40/40,vw50065-340la-gi40/40 , vw50065-cr380la-
gi40/40,vw50065-420la-gi40/40,vw50065-cr460la-gi40/40,vw50065-hr300la-gi40/40 , vw50065-hr340la-gi40/40,
vw50065-hr420la-gi40/40,vw50065-hr460la-gi40/40,vw50065-hr500la-gi40/40,vw50065-hr300mc,
vw50065-hr340mc,vw50065-hr420mc,vw50065-hr460mc,vw50065-hr500mc,vw50065-hrhr550mc,vw50065-hr700mc

w50060-1 hc300x,vw50060-1 hc340x,vw50060-1 hc450x,vw50060-1 hc600x,vw50060-1 hc660x,vw50060-1
hd300x,vw50060 hc600c,vw50060 hc900m, vw50060 hc410y,vw50060 hc470t,vw50060 hdt450f,vw50060
hdt580f , vw50065 cr290y/490t-dp,vw50065 cr330y/590t-dp,vw50065 cr440t/780-dp,vw50065 cr590y/980t-
dp,vw50065 cr700y/980t-dp

vw50065 cr290y/490t-dp-gi40/40-u-o,vw50065 cr330y/590t-dp-gi40/40-u-o,vw50065 cr440t/780-dp-gi40/40-u-o,
vw50065 cr590y/980t-dp-gi40/40-u-o,vw50065 cr700y/980t-dp-gi40/40-u-o

vw50111 st03z-100na-o , vw50111 st04z-100na-o , vw50111 st05z-100na-o , vw50111 st06z-100na-o , vw50111
st03z-100na-o , vw50065-cr1-gi60/60 , vw50065-cr2-gi60/60 , vw50065-cr3-gi60/60 , vw50065-cr4-gi60/60 ,
vw50065-cr5-gi60/60 , vw50065-cr6-gi60/60 , vw50065-cr160if-gi60/60 , vw50065-cr180if-
gi60/60 , vw50065-cr210if-gi60/60 , vw50065-cr160if-gi60/60 , vw50065-cr180if-gi60/60 , vw50065-cr210if-
gi60/60 , vw50065-cr240if-gi60/60 , vw50065-cr180bh-gi60/60 , vw50065-cr210bh-gi60/60 , vw50065-cr240bh-
gi60/60 , vw50065-cr210bh-gi60/60 , vw50065-cr210p-gi60/60 ,vw50065-cr240p-gi60/60,vw50065-cr240la-
gi60/60,vw50065-cr270la-gi60/60.vw50065-cr300la-gi60/60,vw50065-340la-gi60/60 , vw50065-cr380la-
gi60/60,vw50065-420la-gi60/60,vw50065-cr460la-gi60/60,vw50065-hr300la-gi60/60 , vw50065-hr340la-gi60/60,
vw50065-hr420la-gi60/60,vw50065-hr460la-gi60/60,vw50065-hr500la-gi60/60,vw50065-hr300mc,
vw50065-hr340mc,vw50065-hr420mc,vw50065-hr460mc,vw50065-hr500mc,vw50065-hrhr550mc,vw50065-hr700mc

w50060-hc300xd+z100-m-b-o,vw50060 hc340xd+z100-m-b-o,vw50060 hc450xd+z100-m-b-o,vw50060
hc600xd+z100-m-b-o,vw50060 hc660xd+z100-m-b-o,vw50060 hd300xd+z100-m-b-o,vw50060 hc600cd+z100-m-b-
o,vw50060 hc900md+z100-m-b-o, vw50060 hc410yd+z100-m-b-o,vw50060 hc470td+z100-m-b-o,vw50060
hdt450fd+z100-m-b-o,vw50060 hdt580fd+z100-m-b-o , w50060-hc300x ,vw50060 hc340x ,vw50060 hc450x
,vw50060 hc600x ,vw50060 hc660x ,vw50060hd300x ,vw50060 hc600c ,vw50060 hc900m ,vw50060 hc410y ,vw50060
hc470t ,vw50060 hdt450f ,vw50060 hdt580f ,

w50060-hc300x+ze50/50-b-po ,vw50060 hc340x+ze50/50-b-po ,vw50060 hc450x+ze50/50-b-po ,vw50060
hc600x+ze50/50-b-po ,vw50060 hc660x+ze50/50-b-po ,vw50060 hd300x+ze50/50-b-po ,vw50060
hc600c+ze50/50-b-po , vw50060 hc410y+ze50/50-b-po ,vw50060 hc470t+ze50/50-b-po

,vw50065 cr330y/590t-dp,vw50065 cr440t/780-dp,vw50065 cr590y/980t-dp,vw50065 cr700y/980t-dp

vw50065 cr290y/490t-dp-gi60/60-u-o,vw50065 cr330y/590t-dp-gi60/60-u-o,vw50065 cr440t/780-dp-gi60/60-u-o,
vw50065 cr590y/980t-dp-gi60/60-u-o,vw50065 cr700y/980t-dp-gi60/60-u-o zste260bh,sew093 zste380,sew093
zste340,sew093 zste460,sew093 zste460 sew093 zste420,sew 094 zste220p,sew 094 zste260p zste220p-100mb-o00mc,vw
50065-hr340mc,vw50065-hr420mc,vw50065-hr460mc,vw50065-hr500mc,vw50065-hrhr550mc,vw50065-hr700mc
sew 094 zste220bh , zste260bh , sew093 zste380 , sew093 zste340 , sew093 zste460 , sew093 zste460 , sew093
zste420 , sew 094 zste220p , sew 094 zste260p zste220p-100mb-o , zste260p-100mb-o en 欧标

dx51d+z100mb , dx51d+z100mb dx52d+z100mb , dx52d+z100mb , dx53d+z100mb , dx53d+z100mb
 , dx54d+z100mb , dx54d+z100mb , dx56d+z 100mb , dx56d+z 100mb , dx57d+z 100mb , dx57d+z
100mb , dx51d+z 100-m-b , dx52d+z 100-m-b , dx53d+z 100-m-b , dx54d+z 100-m-b , dx55d+z 100-m-
b , dx56d+z 100-m-b , hx180yd+z , hx220yd+z , hx260yd+z , hx180bd+z , hx220bd+z , hx260bd+z , hx300bd
+z , hx260lad+z , hx300lad+z , hx340lad+z , hx380lad+z , hx420lad+z , hx180yd+z100mc-o hx220yd+z100mc-
o , hx260yd+z100mc-o , hx180bd+z100mc-o hx220bd+z100mc-o , hx260bd+z100mc-o , hx300bd+z100mc-o ,
hx260lad+z100mc-o , hx300lad+z100mc-o , hx340lad+z100mc-o , hx380lad+z100mc-o , hx420lad+z100mc-
o , hct450x+z , hct500x+z , hct600x+z , hct780x+z
hct980x+z , hct690t+z , hct780t+z , hct600c+z , hct780c+z , hct980c+z , hdt750c+z , hdt780c+z , hdt950c+z
en10268 hc180p. en10268 hc180p2,en10268 h220p,en10268 hc260p,en10268 h300p,en10268 hc180y,en10268
hc220y,en10268 hc260y,en10268 hc240la,en10268 hc280la,en10268 hc320la,en10268 hc360la,en10268
hc400la,en10268 hc260b,en10268 hc220b,en10268 hc300b en10142 dx51d+z100mb , en10327 dx51d+z100mb
 , en10142 dx52d+z100mb , en10327 dx52d+z100mb , en10142 dx53d+z100mb , en10327 dx53d+z100mb
 , en10142 dx54d+z100mb , en10327 dx54d+z100mb , en10142 dx56d+z100mb , en10327 dx56d+z100mb
en10142 dx57d+z100mb , en10327 dx57d+z100mb , en10346 dx51d+z100-m-b , en10326 dx52d+z100-m-
b , en10346 dx53d+z100-m-b , en10346 dx54d+z100-m-b , en10346 dx55d+z100-m-b , en10346 dx56d+z100-m-
b , en 10142 dx51d+z 99m b- o , en 10142 dx52d+z 99m b- o , en 10142 dx53d+z 99m b- o , en 10142 dx54d+z
99m b- o en 10142 dx56d+z 99m b- o , en10292 hx180yd+z100mb en10292 hx220yd+z100mb , en10292
hx260yd+z100mb en10292 hx180bd+z100mb , en10292 hx220bd+z100mb , en10292 hx260bd+z100mb , en10292
hx300bd+z100mb , en10292 hx260lad+z100mb , en10292 hx300lad+z100mb , en10292
hx340lad+z100mb , en10292 hx380lad+z100mb , en10292 hx420lad+z100mb , en10292 hx180yd+z100mc-o
en10292 hx220yd+z100mc-o , en10292 hx260yd+z100mc-o , en10292 hx180bd+z100mc-o , en10292
hx220bd+z100mc-o , en10292 hx260bd+z100mc-o , en10292 hx300bd+z100mc-o , en10292 hx260lad+z100mc-
o , en10292 hx300lad+z100mc-o , en10292 hx340lad+z100mc-o , en10292 hx380lad+z100mc-o , en10292
hx420lad+z100mc-o , en10336 hct450x+z , en10336 hct500x+z , en10336 hct600x+z , en10336
hct780x+z , en10336 hct980x+z , en10336 hct690t+z , en10336 hct780t+z , en10336 hct600c+z , en10336
hct780c+z , en10336 hct980c+z , en10336 hdt750c+z , en10336 hdt780c+z , en10336 hdt950c+z , din en 10346
dx51d+z , din en 10346 dx52d+z , din en 10346 dx53d+z , din en 10346 dx54d+z , din en 10346 dx55d+z , din en
10346 dx56d+z , din en 10346 hx160yd+z , din en 10346 hx180yd+z , din en 10346 hx180bd+z , din en 10346
hx220yd+z , din en 10346 hx220bd+z , , din en 10346 hx260yd+z , din en 10346 hx260bd+z , din en 10346
hx260lad+z , din en 10346 hx340lad+z , din en 10346 hx420lad+z , din en 10346 hx380lad+z , din en 10346
hx300yd+z , din en 10346 hx340bd+z , din en 10346 hx300lad+z din en 10346 hx460lad+z , din en 10346
hx500lad+z din en 10346 dx51d+z.din en 10346 hct450x+z.din en 10346 hct500x+z.din en 10346 hct600x+z .din en
10346 hct580x+z.din en 10346 hct780x+z .din en 10346 hct980x+z.din en 10346 hct690t+z din en 10346
hct780t+z.din en 10346 hct600c+z.din en 10346 hct750c+z din en 10346 hct780c+z.din en 10346 hct950c+z.din en
10346 hct980c+z.din en 10346 hdt1200m+z ,en10152 dc01+ze75/75-bpo en10152 dc02+ze75/75-bpo,en10152
dc03+ze75/75-bpo,en10152 dc04+ze75/75-bpo en10152 dc05+ze75/75-bpo,en10152 dc06+ze75/75-bpo,en10152
dc01+ze en10152 dc02+ze,en1052 dc03+ze,en10152 dc04+ze,en10152 dc05+ze,en10152 dc06+ze.en10268 hc180b
+ze,en10268 hc180p+ze.en10268 hc180y+ze.en10268 hc220y+ze,en10268 hc240la+ze,en10268 hc260la+ze
 ,en10268 hc300la+ze,en10268 hc340la+ze,en10268 hc380la+ze,en10268 hc420la+ze en10268 hc220p+ze.en
10268 hc220b+ze.en10268 hc260b+ze.en10268 hc300b+ze.en10268.hc260pb+ze.en10268 hc300p+ze.en1033
8hct450x .en10338 hct500x .en10338 hct600x .en10338 hct780x .en10338 hct980x 克莱斯勒汽车钢
ms.50002 cr01,ms.50002 cr02,ms.50002 cr04,ms.50002 cr05,ms.50002 cr06,ms.50002 hr11,ms.50002hr12,
ms.50002 hr13,ms.50002 ifc180y330t,ms.50002 ifc210y340t,ms.50002 ifc240y360t,ms.50002ifc280y380t,ms.50

002 bhc180y290t,ms.50002 bhc210y310t,ms.50002 bhc240y340t,ms.50002lac210y310t,ms.50002 lac240y320t,
ms.50002 lac270y340t,ms.50002 lac300y360t,ms.50002lac340y410t,ms.50002 lac380y450t,ms.50002 lac420y48
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