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ENTERPRISE STANDARD OF
BAOSHAN IRON AND STEEL CO., LTD

Q/BQB 420-2021

Replacing Q/BQB 420-2019

Hot-Dip Galvanizing/Zinc-Iron Alloy/Zinc-Magnesium Alloy Coated Steel Sheet and Strip 热镀锌铁合金锌镁合金镀层钢板及钢带

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1 Chemical composition

Table C.1

Designation	Chemical composition (melting analysis) % (mass fraction) no more than					
	C	Si	Mn	P	S	Ti ^a
DC51D+Z, DC51D+ZM, DC51D+ZM2, DC51D+ZF, DD51D+Z	0.18	0.50	1.20	0.12	0.045	0.30
DC52D+Z, DC52D+ZM, DC52D+ZM2, DC52D+ZF	0.12	0.50	0.60	0.10	0.045	0.30
DC53D+Z, DC53D+ZM, DC53D+ZM2, DC53D+ZF						
DC54D+Z, DC54D+ZM, DC54D+ZM2, DC54D+ZF						
DC56D+Z, DC56D+ZM, DC56D+ZM2, DC56D+ZF						
DC57D+Z, DC57D+ZM, DC57D+ZM2, DC57D+ZF						

^a Nb is allowed to replace Ti; the total content of Nb and Ti is no more than 0.30% at this time.

Table C.2

Designation	Chemical composition (melting analysis) % (mass fraction) no more than				
	C	Si	Mn	P	S
S220GD+Z, S220GD+ZM, S220GD+ZM2, S220GD+ZF	0.25	0.60	1.70	0.10	0.045
S250GD+Z, S250GD+ZM, S250GD+ZM2, S250GD+ZF					
S280GD+Z, S280GD+ZM, S280GD+ZM2, S280GD+ZF					
S320GD+Z, S320GD+ZM, S320GD+ZM2, S320GD+ZF					
S350GD+Z, S350GD+ZM, S350GD+ZM2, S350GD+ZF					
S550GD+Z, S550GD+ZM, S550GD+ZM2					

Table C.3

Designation	Chemical composition (melting analysis) % (mass fraction)							
	C No more than	Si No more than	Mn No more than	P No more than	S No more than	Alt No less than	Ti ^a No more than	Nb ^a No more than
HC180YD+Z, HC180YD+ZM, HC180YD+ZF	0.01	0.10	0.70	0.06	0.025	0.02	0.12	—
HC220YD+Z, HC220YD+ZM, HC220YD+ZF	0.01	0.10	0.90	0.08	0.025	0.02	0.12	—
HC260YD+Z, HC260YD+ZM, HC260YD+ZF	0.01	0.10	1.60	0.10	0.025	0.02	0.12	—
HC180BD+Z, HC180BD+ZM, HC180BD+ZF	0.04	0.50	1.00	0.06	0.025	0.02	—	—
HC220BD+Z, HC220BD+ZM, HC220BD+ZF	0.06	0.50	1.00	0.08	0.025	0.02	—	—
HC260BD+Z, HC260BD+ZM, HC260BD+ZF	0.11	0.50	1.00	0.10	0.030	0.02	—	—
HC300BD+Z, HC300BD+ZM, HC300BD+ZF	0.11	0.50	1.00	0.12	0.030	0.02	—	—
HC260LAD+Z, HC260LAD+ZM, HC260LAD+ZF	0.11	0.50	0.60	0.025	0.025	0.015	0.15	0.09
HC300LAD+Z, HC300LAD+ZM, HC300LAD+ZF	0.11	0.50	1.00	0.030	0.025	0.015	0.15	0.09
HC340LAD+Z, HC340LAD+ZM HC340LAD+ZF, HD340LAD+Z	0.11	0.50	1.00	0.030	0.025	0.015	0.15	0.09
HC380LAD+Z, HC380LAD+ZM, HC380LAD+ZF	0.20	0.50	1.60	0.030	0.025	0.015	0.15	0.09
HC420LAD+Z, HC420LAD+ZM HC420LAD+ZF, HD410LAD+Z	0.20	0.50	1.60	0.030	0.025	0.015	0.15	0.09
HC460LAD+Z, HC460LAD+ZM, HC460LAD+ZF	0.20	0.50	1.70	0.030	0.025	0.015	0.15	0.09
HC500LAD+Z, HC500LAD+ZM, HC500LAD+ZF	0.20	0.50	1.70	0.030	0.025	0.015	0.15	0.09
HC550LAD+Z	0.20	0.50	2.00	0.030	0.025	0.015	0.15	0.09
HD550LAD+Z	0.20	0.50	2.00	0.030	0.025	0.015	0.15	0.09

^a Ti and Nb can be added individually or in combination. V and B can also be added; and the total content of these alloy elements is ≤ 0.22%.

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