

表 3-19 车辆齿轮用钢系列

牌 号		化学成分(质量分数)(%)															
国内牌号	国外牌号	C	Si	Mn	P	S	Ni	Cr	Mo	Al	Cu	Ti	B				
16CrMnTiH		0.13 ~0.18	0.17 ~0.37	0.80 ~1.10	≤0.030	≤0.035	—	0.90 ~1.20	—	—		0.04 ~0.10	—				
20CrMnTiH1		0.18 ~0.23						0.90 ~1.25						1.00 ~1.30			
20CrMnTiH2														1.10 ~1.45			
20CrMnTiH3				0.02 ~0.035										0.90 ~1.20	0.02 ~0.055	≤0.20	0.001 ~0.003
20CrMnTiH4								1.00 ~1.30									
20CrMnTiH5								0.80 ~1.10						≤0.10			
20CrMnTiH6								≤0.15									
16MnCrH	16MnCr5	0.14 ~0.20	≤0.12	1.00 ~1.40		0.015 ~0.035	—	—	—	—	—	—		—			
20MnCrH	20MnCr5	0.17 ~0.23		1.10 ~1.50											0.80 ~1.10		
25MnCrH	25MnCr5	0.23 ~0.28		0.60 ~0.80											1.00 ~1.30		
28MnCrH	28MnCr5	0.25 ~0.30													0.80 ~1.10		
16CrMnBH	ZF6	0.13 ~0.18	0.15 ~0.40	1.00 ~1.30		0.015 ~0.035	—	0.80 ~1.10	—	—	—	—		—	—		
18CrMnBH	ZF7	0.15 ~0.20						1.00 ~1.30								1.40 ~1.70	
17CrMnBH	ZF7B							1.40 ~1.70									
17Cr2Ni2H	ZF1	0.15 ~0.19	0.15 ~0.40	0.40 ~0.60		0.02 ~0.04	0.80 ~1.20	0.80 ~1.20	≤0.10	0.02 ~0.05	—	—		—	—		
16CrNiH	16CrNi4	0.13 ~0.18	0.15 ~0.35	0.70 ~1.10												0.02 ~0.035	
19CrNiH	19CrNi5	0.16 ~0.21				0.015 ~0.035	1.40 ~1.70	1.50 ~1.80	0.25 ~0.35	—	0.02 ~0.045						
17Cr2Ni2MoH	ZF1A	0.15 ~0.19	0.15 ~0.40	0.40 ~0.60		0.017 ~0.032	0.35 ~0.75	0.35 ~0.65	0.15 ~0.25	—		≤0.15					
20CrNiMoH1	8620H1	0.17 ~0.23	0.15 ~0.35	0.60 ~0.95		≤0.025	—	0.80 ~1.10	0.25 ~0.45					—			
20CrNiMoH2	8620H2							0.15 ~0.25	0.15 ~0.25								
15CrMoH		0.13 ~0.18	0.17 ~0.37	0.40 ~0.70				≤0.035	—	0.85 ~1.25	0.15 ~0.35	0.02 ~0.05		≤0.20			
20CrMo		0.18 ~0.23								0.80 ~1.10	0.15 ~0.25						
20CrMoH	SCM420	0.17 ~0.23	0.17 ~0.35	0.55 ~0.90		0.70 ~1.00	—			—	—						
35CrMo		0.32 ~0.40				0.50 ~0.80											
20CrH		0.18 ~0.23				0.17 ~0.37	0.50 ~0.80	0.80 ~1.10									
40Cr		0.37 ~0.44															