

## Japanese Automobile Standards — H Steels

Chemical Composition, %

No.	Steel Grade	C	Si	Mn	P	S	Ni	Cr	Mo	B	Cu
34	ASMn420H	.17/.23	.15/.35	1.15/1.55	.030 max	.030 max	.25 max	.35 max	—	—	.30 max
35	ASMn425H	.22/.28	.15/.35	1.15/1.55	.030 max	.030 max	.25 max	.35 max	—	—	.30 max
36	ASMn430H	.27/.34	.15/.35	1.15/1.55	.030 max	.030 max	.25 max	.35 max	—	—	.30 max
37	SMn433H	.29/.36	.15/.35	1.15/1.55	.030 max	.030 max	.25 max	.35 max	—	—	.30 max
38	ASMn435H	.32/.39	.15/.35	1.15/1.55	.030 max	.030 max	.25 max	.35 max	—	—	.30 max
39	SMn438H	.34/.41	.15/.35	1.30/1.70	.030 max	.030 max	.25 max	.35 max	—	—	.30 max
40	ASMn440H	.37/.44	.15/.35	1.30/1.70	.030 max	.030 max	.25 max	.35 max	—	—	.30 max
41	ASMn443H	.40/.47	.15/.35	1.30/1.70	.030 max	.030 max	.25 max	.35 max	—	—	.30 max
42	ASMn448H	.45/.52	.15/.35	1.30/1.70	.030 max	.030 max	.25 max	.35 max	—	—	.30 max
43	ASMn453H	.50/.57	.15/.35	1.30/1.70	.030 max	.030 max	.25 max	.35 max	—	—	.30 max
44	ASMnB220H	.17/.23	.15/.35	1.10/1.40	.030 max	.030 max	.25 max	.35 max	—	.0005 min	.30 max
45	ASMnB233H	.29/.36	.15/.35	1.10/1.40	.030 max	.030 max	.25 max	.35 max	—	.0005 min	.30 max
46	ASMnB422H	.19/.25	.15/.35	1.20/1.50	.030 max	.030 max	.25 max	.35 max	—	.0005 min	.30 max
47	ASMnB425H	.22/.28	.15/.35	1.20/1.50	.030 max	.030 max	.25 max	.35 max	—	.0005 min	.30 max
48	ASMnB433H	.29/.36	.15/.35	1.20/1.50	.030 max	.030 max	.25 max	.35 max	—	.0005 min	.30 max
49	ASMnB443H	.40/.47	.15/.35	1.20/1.50	.030 max	.030 max	.25 max	.35 max	—	.0005 min	.30 max
50	ASMnC420H	.17/.23	.15/.35	1.15/1.55	.030 max	.030 max	.25 max	.35/.70	—	—	.30 max
51	SMnC443H	.39/.46	.15/.35	1.30/1.70	.030 max	.030 max	.25 max	.35/.70	—	—	.30 max
52	ASMnC520H	.17/.23	.15/.35	1.15/1.55	.030 max	.030 max	.25 max	.85/1.25	—	—	.30 max
53	ASMnC543H	.39/.46	.15/.35	1.30/1.70	.030 max	.030 max	.25 max	.85/1.25	—	—	.30 max
54	ASMnCB440H	.37/.44	.15/.35	.80/1.20	.030 max	.030 max	.25 max	.30/.70	—	.0005 min	.30 max
55	SCr415H	.12/.18	.15/.35	.80/1.20	.030 max	.030 max	.25 max	.85/1.25	—	—	.30 max
56	ASCr418H	.15/.21	.15/.35	.55/.90	.030 max	.030 max	.25 max	.85/1.25	—	—	.30 max
57	SCr420H	.17/.23	.15/.35	.55/.90	.030 max	.030 max	.25 max	.85/1.25	—	—	.30 max
58	ASCr423H	.20/.26	.15/.35	.55/.90	.030 max	.030 max	.25 max	.85/1.25	—	—	.30 max
59	ASCr425H	.22/.28	.15/.35	.55/.90	.030 max	.030 max	.25 max	.85/1.25	—	—	.30 max
60	SCr430H	.27/.34	.15/.35	.55/.90	.030 max	.030 max	.25 max	.85/1.25	—	—	.30 max
61	SCr435H	.32/.39	.15/.35	.55/.90	.030 max	.030 max	.25 max	.85/1.25	—	—	.30 max
62	SCr440H	.37/.44	.15/.35	.55/.90	.030 max	.030 max	.25 max	.85/1.25	—	—	.30 max
63	ASCr445H	.42/.49	.15/.35	.55/.90	.030 max	.030 max	.25 max	.85/1.25	—	—	.30 max
64	ASCB435H	.32/.39	.15/.35	.55/.90	.030 max	.030 max	.25 max	.85/1.25	—	.0005 min	.30 max
65	ASCB440H	.37/.44	.15/.35	.55/.90	.030 max	.030 max	.25 max	.85/1.25	—	.0005 min	.30 max
66	ASCM115H	.12/.18	.15/.35	.60/.90	.030 max	.030 max	.25 max	.35/.65	.08/.15	—	.30 max
67	ASCM118H	.15/.21	.15/.35	.60/.90	.030 max	.030 max	.25 max	.35/.65	.08/.15	—	.30 max
68	ASCM120H	.17/.23	.15/.35	.60/.90	.030 max	.030 max	.25 max	.35/.65	.08/.15	—	.30 max

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No.	Steel Grade	C	Si	Mn	P	S	Ni	Cr	Mo	B	Cu
69	ASCM125H	.22/.28	.15/.35	.60/.90	.030 max	.030 max	.25 max	.35/.65	.08/.15	—	.30 max
70	ASCM315H	.12/.18	.15/.35	.65/1.00	.030 max	.030 max	.25 max	.85/1.25	.08/.15	—	.30 max
71	ASCM318H	.15/.21	.15/.35	.65/1.00	.030 max	.030 max	.25 max	.85/1.25	.08/.15	—	.30 max
72	ASCM320H	.17/.23	.15/.35	.65/1.00	.030 max	.030 max	.25 max	.85/1.25	.08/.15	—	.30 max
73	ASCM325H	.22/.28	.15/.35	.65/1.00	.030 max	.030 max	.25 max	.85/1.25	.08/.15	—	.30 max
74	SCM415H	.12/.18	.15/.35	.55/.90	.030 max	.030 max	.25 max	.85/1.25	.15/.35	—	.30 max
75	SCM418H	.15/.21	.15/.35	.55/.90	.030 max	.030 max	.25 max	.85/1.25	.15/.35	—	.30 max
76	SCM420H	.17/.23	.15/.35	.55/.90	.030 max	.030 max	.25 max	.85/1.25	.15/.35	—	.30 max
77	ASCM430H	.27/.34	.15/.35	.55/.90	.030 max	.030 max	.25 max	.85/1.25	.15/.35	—	.30 max
78	SCM435H	.32/.39	.15/.35	.55/.90	.030 max	.030 max	.25 max	.85/1.25	.15/.35	—	.30 max
79	SCM440H	.37/.44	.15/.35	.55/.90	.030 max	.030 max	.25 max	.85/1.25	.15/.35	—	.30 max
80	SCM445H	.42/.49	.15/.35	.55/.90	.030 max	.030 max	.25 max	.85/1.25	.15/.35	—	.30 max
81	SCM822H	.19/.25	.15/.35	.55/.90	.030 max	.030 max	.25 max	.85/1.25	.35/.45	—	.30 max
82	SNCM220H	.17/.23	.15/.35	.60/.95	.030 max	.030 max	.35/.75	.35/.65	.15/.30	—	.30 max
83	SNCM420H	.17/.23	.15/.35	.40/.70	.030 max	.030 max	1.55/2.00	.35/.65	.15/.30	—	.30 max