

Grades (Hardened & Tempered)



JINDAL METALS AND ALLOYS LIMITED

GRADES & STANDARDS			CHEMICAL COMPOSITION								
Grade	Relevant Standard	Nomenclature	C %	Mn %	Si %	S %	P %	Cu %	OTHERS	Ni %	Cr %
C 45	IS-2507	45C 8	0.40-0.50	0.60-0.90	0.10-0.35	<0.050	<0.050	–	–	–	–
	ASTM A 568	SAE 1045	0.43-0.50	0.60-0.90	0.15-0.30	<0.035	<0.030	–	–	–	0.10-0.35
C 55	IS-2507	55C6	0.50-0.60	0.50-0.65	0.10-0.35	<0.050	<0.050	–	–	–	–
	ASTM A 568	SAE-1055	0.52-0.60	0.60-0.90	0.15-0.30	<0.035	<0.030	–	–	–	–
	EN 10132-4	CK-55	0.52-0.60	0.60-0.90	0.15-0.35	<0.025	<0.025	–	Mo<0.10	<0.40	<0.40
	JIS 4802	S55C	0.52-0.58	0.60-0.90	0.15-0.5	<0.035	<0.030	<0.30	Ni+Cr<0.35	<0.20	<0.20
C 62	IS-2507	65C6	0.60-0.70	0.50-0.80	0.10-0.35	<0.050	<0.050	–	–	–	0.10-0.35
	ASTM A 568	SAE-1060	0.55-0.66	0.60-0.90	0.15-0.30	<0.035	<0.030	–	–	–	–
	EN 10132-4	CK60	0.57-0.65	0.60-0.90	0.15-0.35	<0.025	<0.025	–	Mo<0.10	<0.40	<0.40
	JIS 4802	S60C	0.55-0.65	0.60-0.90	0.15-0.30	<0.035	<0.030	<0.30	–	<0.20	<0.20
C 67	ASTM A 568	SAE 10367	0.65-0.73	0.60-0.90	0.15-0.30	<0.035	<0.030	–	–	–	0.10-0.35
C 80	IS-2507	80C6	0.75-0.85	0.50-0.80	0.10-0.35	<0.050	<0.050	–	–	–	–
	ASTM A 568	SAE-1080	0.74-0.88	0.60-0.90	0.15-0.30	<0.035	<0.030	–	–	–	–
	ASTM A 569	SAE-1074	0.70-0.80	0.50-0.80	0.15-0.30	<0.035	<0.030	–	–	–	–
	EN 10132-4	C75S	0.70-0.80	0.60-0.90	0.15-0.35	<0.025	<0.025	<0.40	Mo<0.10	–	<0.40
	EN 10132-4	C85S	0.80-0.90	0.40-0.70	0.15-0.35	<0.025	<0.025	<0.40	Mo<0.10	–	<0.40
	JIS G 4401	SK85	0.80-0.90	0.10-0.50	0.10-0.35	<0.030	<0.025	<0.40	–	<0.025	<0.30
JIS 4802	S80C	0.75-0.85	0.60-0.90	0.15-0.30	<0.035	<0.030	<0.30	–	<0.20	<0.20	
C 98	IS-2507	98C 6	0.90-1.05	0.50-0.80	0.10-0.35	<0.050	<0.050	–	–	–	–
	ASTM A 568	SAE-1095	0.90-1.03	0.30-0.50	0.15-0.30	<0.035	<0.030	–	–	–	0.10-0.35
50CrV4	IS-2507	50CrV4	0.47-0.55	0.80-1.10	0.15-0.35	<0.035	<0.035	–	V 0.07-0.12	–	0.90-1.20
	51CrV4	SAE-6150	0.47-0.55	0.70-1.10	0.15-0.35	<0.040	<0.040	–	V 0.10-0.20	–	0.90-1.20
	JIS	SUP-10	0.47-0.55	0.80-1.10	0.15-0.35	<0.040	<0.040	–	V 0.10-0.20	–	0.90-1.20
58CrV4			0.55-0.62	0.70-1.10	0.15-0.35	<0.035	<0.035	–	V 0.10-0.20	–	0.90-1.20
75Cr1	IS-2507		0.70-0.80	0.60-0.80	0.25-0.50	<0.03	<0.030	–	–	–	0.30-0.40
75Ni8	EN 1.5634		0.72-0.78	0.30-0.50	0.15-0.35	<0.025	<0.025	–	Mo 0.10	1.8-2.10	<0.15