

Type	Name	International Spec.		Chemical composition (%)							Mechanical property					Characteristic
		JIS	ASTM	C	Si	Mn	Ni	Cr	Mo	Other	YS (N/mm <sup>2</sup> )	TS (N/mm <sup>2</sup> )	El (%)	Impact (J/cm <sup>2</sup> )	Hardness (HRc)	Use
Heat Resistant	SCH-11	SCH11	A297HD	≤0.4	≤2.00	≤1.00	4.0-6	24-28	-			≥588				High strength at high temp. Grate
	SCH-13	SCH13	A297HH	0.2-0.5	≤2.00	≤2.00	11-14	24-28	-		≥235	≥490	≥8		High quality in heat up and down Heat treatment Bucket	
	SCH-SB			0.2-0.4	≤1.00	≤2.00	2-6	18-23	bit						Basket Liner	
	SCH-22	SCH22	A297HK40	0.35-0.45	≤1.75	≤1.50	19-22	23-27	-		≥235	≥440	≥8		Excellent property at high temp. Grate	
	SCH-23		A297HL	0.3-0.4	≤2.00	≤2.00	18-20	30-32	≤0.50						Grate Plate	
	SCH-24	SCH24	A297HP	0.35-0.75	≤2.00	≤2.00	33-37	24-28	-		≥235	≥440	≥5		Improvement of oxidation, corrosion Kiln metal frame	
High Cr Steel	18CrNMSC			0.9-1.2	≤0.08	≤1.00	1.5-2.5	17-19	0.5-1					33-59	Wide ranging use Wedge Bar	
High Cr Cast	16CrVFC		A532 II-B	3.2-3.5	≤0.08	≤1.00	-	15-17	0.45-0.5	V		≥290			≥60	Excellent quenching property
	19CrFC-GM			2.3-2.6	≤0.08	0.8-1.4	-	18-20	0.4-0.6						58-62	Excellent quenching property Liner, Shoot
	20CrFC			2.5-2.7	≤0.08	≤1.00	-	18-21	1-1.5			≥490			≥53	Excellent quenching property Mill parts, Hammer
	25CrNiFC		A532 III-A	2.7-2.9	≤0.08	≤1.00	0.7-1.2	25-30	0.3-0.5			≥490			≥45	Excellent quenching property Cyclic parts
Ni-Hard	5NiCrFC			3-3.6	≤0.08	≤1.00	4-6	5.5-8	-						≥49	Ni-Hard Mill Liner
Hi-Mn Steel	SCMnH-11	SCMn11	A128-C	0.9-1.3	≤0.08	11-14	-	1.5-2.5	-		≥390	≥740	≥20		HB≥240	Hammer Liner
	SCMnH-21	SCMn21		1-1.35	≤0.08	11-14	-	2-3	-	V	≥440	≥740	≥10		HB≥240	Excellent wear resistant Hammer Liner
Low Alloy Steel	SCNcRm2B	SCNcRm2B	A732-9Q	0.25-0.35	≤0.08	≤1.00	1.6-2	0.3-0.9	0.15-0.35		≥685	≥880	≥9		HB≥269	High strength and excellent wear resistant
	SCMnCrVB			0.2-0.4	≤0.08	≥2.00	□1.00	0.5-1.5	0.2-0.3		≥1200	≥1400	≥5		□45	High strength and excellent wear resistant Hammer Liner
	SCMnCr-MT			0.3-0.4	≤0.08	1-1.3	0.5-0.7	1.4-1.6	0.3-0.4	V,Re						High strength and excellent wear resistant
Low Alloy Steel	ZGSi2MnCr2MoV			0.3-0.4	0.8-1.4	1-1.6	-	1.5-2.5	0.5-1	V,Re				46-63	51-53	Tooth, Shoe for Construction parts
	ZG38SiMn2BRe			0.35-0.42	0.6-0.9	1.5-2.5	-	-	-	B,Re				63-66	53-54	Liner for Dia. 1.5M wet mining Mill
	ZG42Cr2MnSi2MoRe			0.38-0.48	1.5-1.8	0.8-1	-	1.8-2.2	0.1-0.3	Re				21.6-65.7	51-57	Liner for Dia. 4.5M cement Mill
	ZG50SiMnCrCuRe			0.45-0.5	0.6-1.2	1.3-1.8	-	1.5-2.5	-	Re				11-19	54-59	Dia.800x600 crusher drill
Stainless Steel	SCS-2	SCS2	A743CA40	0.16-0.24	≤1.50	≤1.00	□1.00	11.5-14	-		≥390	≥558	≥16		HB≥170	Equipment parts
	SCS-13	SCS13	A743CF8	≤0.08	≤2.00	≤2.00	8-11	18-21	-		≥185	≥440	≥30		HB≤183	Oxi.and corrosion resistant 18Cr-8Ni Austenite Stainless Steel
	SCS-24	SCS24	A747CB7Cu1	≤0.08	≤1.00	≤1.00	3-5	15.5-17.5	-	Cu,Nb,Ta	≥665	≥850	≥10		HB≥269	Oxi.and corrosion resistant Machining parts