Capability:

Mechanical and Magnetic Capability of Cold Rolled Non-oriented Silicon Steel

Thickness	Grade(Not complete trademark)	Theoretical Density	Max Core Loss (Provision)	Min Magnetic Strength (Provision)	Min Laminated Quotiety (Provision)	Max Core loss(Reality)	Min Magnetic Strength (Reality)	Tensile Strength		Yield Strength		Percentage of Elongtation		Hardness	Value of Bending Test		Min Laminated Quotiety (Reality)
		g/cm3	W/kg	T	%	W/kg	T	MPa		MPa		%		Hv(5)	Times		%
			P1.5/50	B5000		P1.5/50	B5000	L	C	L	C	L	C		L	C	
0.35	W230	7.6	2.3	1.62	95	2.07	1.67	520	530	411	420	26	30	190	9	8	98
	W250		2.5	1.62		2.25	1.67	520	530	411	420	28	31	190	12	11	98
	W270	7.65	2.7	1.62		2.4	1.67	510	519	402	412	30	33	185	14	13	98
	W300		3	1.62		2.6	1.67	500	510	392	412	31	33	180	14	13	98
	W360		3.6	1.63		2.85	1.67	461	480	343	372	32	34	170	15	15	98.2
	W400		4	1.63		3.15	1.67	421	440	323	333	39	40	164	15	15	98.5
	W440	7.7	4.4	1.65		3.72	1.67	412	430	265	274	39	42	158	15	15	98.5
0.5	W250	7.6	2.5	1.62	97	2.25	1.67	507	521	411	423	13	13	187	9	8	98
	W270		2.7	1.62		2.4	1.67	507	522	406	422	19	19	187	9	8	98
	W290		2.9	1.62		2.6	1.67	519	539	412	431	27	28	185	10	9	98
	W310		3.1	1.62		2.8	1.67	539	549	412	431	29	30	185	10	9	98
	W350	7.65	3.5	1.62		2.85	1.67	500	519	402	412	34	36	182	15	15	98.2
	W400		4	1.63		3.27	1.67	461	480	353	363	35	38	164	15	15	98.2
	W470		4.7	1.64		3.54	1.67	461	480	333	333	34	37	156	15	15	98.5
	W600	7.7	6	1.66		4.2	1.68	412	423	265	274	41	43	114	15	15	98.7
	W700	7.75	7	1.67		5	1.7	400	410	240	249	43	46	110	15	15	98.7
	W800	7.8	8	1.68		5.9	1.71	380	390	230	240	45	48	108	15	15	98.7
	W1000		10	1.7		6.7	1.73	370	380	210	220	48	51	104	15	15	98.7
	W1300	7.85	13	1.72		7.4	1.75	360	370	200	210	50	53	100	15	15	98.7

1.The samples of Magnetic test are half parallel to the rolling direction and half perpendicular to rolling direction
2.The samples of Mechanical test,marked L means sample parallel to the rolling direction and marked C means perpendicular to rolling direction
3.In the laminated Quotiety test,the samples is with the coating,to make sure the result real.
4.Surface insulation coating
Composition: Semi organic
Coating Thickness : 0.3-3.0g/m^2
Lamination Factor: >97%
Interlamination resistance >70Ω mm^2
Refractoriness ,Heat resistance ,Rust resistance, Weldability ,Punchability : All Good or Excellent!

Standards Comparing

MAXIMUM CORE LOSS @ 15kG (1.5 T) W/kg 50 Hz.																																						
Thickness	Specification	2.30	2.50	2.70	2.80	2.90	2.93	3.03	3.05	3.10	3.14	3.22	3.30	3.31	3.33	3.50	3.57	3.60	3.68	3.80	4.00	4.01	4.10	4.13	4.50	4.70	5.00	5.30	5.31	5.40	5.90	6.00	6.30	6.80	6.96	7.00	8.00
0.50 mm.	GB/T2521-1996	50W270			50W290			50W310			50W350							50W400								50W470		50W600						50W700				50AW800
	JIS C 2553-1986	50A270			50A290			50A310			50A350							50A400								50A470		50A600						50A700				50A800
	NIPPON	50H230	50H250	50H270	50H290			50H310			50H350							50H400				50H470						50H600						50H700				50H800
	KAWASAKI	50RM270			50RM290			50RM310			50RM350							50RM400				50RM470						50RM600						50RM700				50RM800
	AISI	M-19									M-22			M-27		M-36		M-43				M-45									M-47							
	ASTM (A725)	47F174									47F185			47F190		47F205		47F230				47F305									47F400							
	DIN 46400	V270-50A			V290-50A			V310-50A			V330-50A			V350-50A				V400-50A								V470-50A						V530-50A		V600-50A			V700-50A		V800-50A
	ACESITA	E-125									E-137			E-145				E-170				E-185			E-200		E-230				E-260							
	AST	2970			2950			3150			3350			3550				4050				V4750					5350				6050				7050			
	GOST	2412									2411							2312				2212																
	POLISH	EP-14																EP-16				EP-18			EP-20		EP-23				EP-26			EP-28	EP-30	EP-35		
	EBG	V250-50A		V270-50A	V290-50A			V310-50A			V330-50A			V350-50A				V400-50A				V470-50A					V530-50A				V600-50A			V700-50A				V800-50A
	ARMCO	M-19									M-22			M-27		M-36		M-43				M-45									M-47							
	BRITISH	355																400				450				500												
		2.30	2.50	2.70	2.80	2.90	2.93	3.03	3.05	3.10	3.14	3.22	3.30	3.31	3.33	3.50	3.57	3.60	3.68	3.80	4.00	4.01	4.10	4.13	4.50	4.70	5.00	5.30	5.31	5.40	5.90	6.00	6.30	6.80	6.96	7.00	8.00