



NO15

TYPICAL VALUES

POLARISATION J_{peak} T	SPECIFIC TOTAL LOSS				
	at 50 Hz W/kg	at 400 Hz W/kg	at 2500 Hz W/kg	at 5000 Hz W/kg	at 10000 Hz W/kg
0.1	0.02	0.17	2.00	6.10	19.6
0.2	0.08	0.71	7.89	25.3	71.2
0.3	0.15	1.47	17.9	52.6	149
0.4	0.24	2.46	29.8	88.3	245
0.5	0.35	3.76	43.5	130	
0.6	0.45	5.11	59.0	180	
0.7	0.60	6.60	76.6	236	
0.8	0.73	8.25	97.6	299	
0.9	0.90	10.1	122	372	
1.0	1.08	12.1	155		
1.1	1.28	14.4	192		
1.2	1.51	17.2			
1.3	1.80	20.6			
1.4	2.17	24.4			
1.5	2.59	28.8			
1.6	2.99				
1.7	3.34				
1.8	3.66				

	GUARANTEED VALUES	TYPICAL VALUES
Loss at 1.0T and 50 Hz, W/kg	-	1.08
Loss at 1.0T and 400 Hz, W/kg	14.0	12.1
Loss at 1.0T and 2500 Hz, W/kg	171	155
Nominal thickness, mm		0.15
Resistivity, $\mu\Omega\text{cm}$		52
Density, g/cm^3		7.65
Yield strength, N/mm^2		370
Tensile strength, N/mm^2		450
Young's modulus, RD, N/mm^2		185 000
Young's modulus, TD, N/mm^2		200 000
Hardness HV5		180

RD represents the rolling direction
 TD represents the transverse direction
 Values for yield strength (0.2 % proof strength)
 and tensile strength are given for the rolling direction
 Values for the transverse direction are approximately 5% higher



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POLARISATION J_{peak} T	MAGNETIC FIELD STRENGTH H_{peak}				
	at 50 Hz A/m	at 400 Hz A/m	at 2500 Hz A/m	at 5000 Hz A/m	at 10000 Hz A/m
0.1	27	35	44	48	62
0.2	34	45	60	75	101
0.3	41	52	77	99	132
0.4	47	58	88	118	159
0.5	52	63	99	133	190
0.6	59	68	110	151	211
0.7	65	74	119	166	
0.8	73	80	130	184	
0.9	85	90	141	206	
1.0	101	103	159	230	
1.1	119	126	178	253	
1.2	157	164	206		
1.3	230	245			
1.4	440	440			
1.5	1210	1195			
1.6	2910	2860			
1.7	5210				
1.8	9490				

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