



## NO18

### 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	0.18	2.34	7.00	22.9
0.2	0.07	0.72	8.95	29.0	81.2
0.3	0.14	1.49	20.5	60.1	167
0.4	0.22	2.50	34.1	99.1	277
0.5	0.32	3.79	49.3	146	
0.6	0.41	5.15	66.1	201	
0.7	0.53	6.65	87.1	265	
0.8	0.70	8.29	112	339	
0.9	0.84	10.2	139	425	
1.0	1.00	12.2	173		
1.1	1.20	14.6	219		
1.2	1.45	17.7			
1.3	1.72	21.2			
1.4	2.09	25.0			
1.5	2.49	29.4			
1.6	2.83				
1.7	3.18				
1.8	3.47				

	GUARANTEED VALUES	TYPICAL VALUES
Loss at 1.0T and 50 Hz, W/kg	-	1.00
Loss at 1.0T and 400 Hz, W/kg	14.3	12.2
Loss at 1.0T and 2500 Hz, W/kg	186	173
Nominal thickness, mm		0.178
Resistivity, $\mu\Omega\text{cm}$		52
Density, $\text{g/cm}^3$		7.65
Yield strength, $\text{N/mm}^2$		370
Tensile strength, $\text{N/mm}^2$		450
Young's modulus, RD, $\text{N/mm}^2$		185 000
Young's modulus, TD, $\text{N/mm}^2$		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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### TYPICAL VALUES

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	30	36	45	50	69
0.2	37	45	64	81	110
0.3	43	52	81	108	142
0.4	48	58	93	129	175
0.5	53	63	106	148	221
0.6	58	68	117	166	
0.7	63	74	128	186	
0.8	71	79	140	210	
0.9	82	89	155	238	
1.0	95	99	175	269	
1.1	118	123	195		
1.2	154	155	220		
1.3	219	228			
1.4	405	400			
1.5	1090	1100			
1.6	2680				
1.7	5150				
1.8	9500				

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RD represents the rolling direction  
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 and tensile strength are given for the rolling direction  
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