HI-LITE™
HIGH PERFORMANCE - ULTRA LIGHT

NO20-1200

TYPICAL VALUES

POLARISATION	SPECIFIC TOTAL LOSS				
J_{peak} T	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	0.01	0.16	2.45	7.72	23.3
0.2	0.05	0.67	9.31	28.0	84.8
0.3	0.12	1.39	21.4	58.0	172
0.4	0.19	2.34	35.5	96.8	286
0.5	0.27	3.55	51.3	144	
0.6	0.37	4.83	68.8	201	
0.7	0.46	6.26	90.4	270	
0.8	0.58	7.81	117	352	
0.9	0.71	9.62	146	445	
1.0	0.85	11.4	180	560	
1.1	1.03	13.9	222		
1.2	1.23	17.0	264		
1.3	1.50	20.5			
1.4	1.84	24.5			
1.5	2.16	29.0			
1.6	2.50				
1.7	2.76				
1.8	2.97				

	GUARANTEED VALUES	TYPICAL VALUES
Loss at 1.0 T and 50 Hz, W/kg	-	0.85
Loss at 1.0 T and 400 Hz, W/kg	12.0	11.4
Loss at 1.0 T and 2500 Hz, W/kg	195	180
Nominal thickness, mm		0.20
Resistivity, μΩcm		59
Density, g/cm^3		7.60
Yield strength, N/mm^2		440
Tensile strength, N/mm^2		530
Young's modulus, RD, N/mm^2		175 000
Young's modulus, TD, N/mm^2		190 000
Hardness HV5		210

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

cogent
Surahammars Bruks AB

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TYPICAL VALUES

POLARISATION	MAGNETIC FIELD STRENGTH H_{peak}				
J_{peak} T	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	24	30	36	48	66
0.2	30	38	59	81	113
0.3	37	46	76	106	148
0.4	42	54	92	128	182
0.5	48	60	105	149	
0.6	52	67	119	172	
0.7	58	74	134	199	
0.8	67	81	151	229	
0.9	78	91	170	264	
1.0	95	104	193	304	
1.1	122	126	215		
1.2	172	180	248		
1.3	292	297			
1.4	694	702			
1.5	2050	1970			
1.6	4350				
1.7	7480				
1.8	12100				

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