HI-LITE™
HIGH PERFORMANCE - ULTRA LIGHT

NO12

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	0.02	0.16	1.65	5.09	16.2
0.2	0.08	0.70	6.83	21.4	61.6
0.3	0.16	1.45	15.2	45.2	128
0.4	0.26	2.42	25.4	77.3	218
0.5	0.37	3.73	37.7	114	322
0.6	0.48	5.05	52.0	157	
0.7	0.62	6.49	66.1	205	
0.8	0.76	8.09	83.1	258	
0.9	0.92	9.84	103	322	
1.0	1.09	11.8	132	389	
1.1	1.29	14.1	163		
1.2	1.53	16.7			
1.3	1.85	19.9			
1.4	2.24	23.8			
1.5	2.69	28.1			
1.6	3.14				
1.7	3.51				
1.8	3.83				

	GUARANTEED VALUES	TYPICAL VALUES
Loss at 1.0 T and 50 Hz, W/kg	-	1.09
Loss at 1.0 T and 400 Hz, W/kg	13.5	11.8
Loss at 1.0 T and 2500 Hz, W/kg	152	132
Nominal thickness, mm		0.127
Resistivity, μΩcm		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

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	25	35	40	46	54
0.2	32	46	57	70	92
0.3	39	53	71	89	120
0.4	45	58	82	106	143
0.5	51	63	90	119	163
0.6	57	68	100	132	184
0.7	65	74	109	145	
0.8	75	81	116	157	
0.9	89	92	125	170	
1.0	105	107	137	187	
1.1	124	130	153	204	
1.2	160	173	180		
1.3	248	267			
1.4	470	490			
1.5	1290	1280			
1.6	3050				
1.7	5350				
1.8	9420				

	GUARANTEED VALUES	TYPICAL VALUES
Loss at 1.0 T and 50 Hz, W/kg	-	1.09
Loss at 1.0 T and 400 Hz, W/kg	13.5	11.8
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