HI-LITE™
HIGH PERFORMANCE - ULTRA LIGHT

NO10

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	0.18	1.52	4.20	11.1
0.2	0.08	0.73	6.28	17.8	46.9
0.3	0.17	1.56	14.0	38.5	107
0.4	0.27	2.59	23.3	63.8	180
0.5	0.39	3.78	36.1	96.3	258
0.6	0.51	5.11	47.9	133	
0.7	0.66	6.60	60.9	174	
0.8	0.82	8.23	76.4	220	
0.9	1.00	10.1	93.9	269	
1.0	1.20	12.1	119	326	
1.1	1.44	14.4	145		
1.2	1.74	17.3			
1.3	2.09	20.6			
1.4	2.52	24.9			
1.5	2.98	29.3			
1.6	3.42				
1.7	3.76				
1.8	4.10				

	GUARANTEED VALUES	TYPICAL VALUES
Loss at 1.0 T and 50 Hz, W/kg	-	1.20
Loss at 1.0 T and 400 Hz, W/kg	13.0	12.1
Loss at 1.0 T and 2500 Hz, W/kg	135	119
Nominal thickness, mm		0.10
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	24	35	40	44	53
0.2	31	46	52	66	85
0.3	38	53	66	83	110
0.4	44	58	75	99	129
0.5	50	63	83	110	150
0.6	57	69	93	122	165
0.7	66	75	102	134	
0.8	76	82	109	142	
0.9	90	93	116	152	
1.0	109	109	130	162	
1.1	127	133	149	170	
1.2	166	177	177		
1.3	252	279			
1.4	500	520			
1.5	1320	1320			
1.6	3100				
1.7	5390				
1.8	9450				

	GUARANTEED VALUES	TYPICAL VALUES
Loss at 1.0 T and 50 Hz, W/kg	-	1.20
Loss at 1.0 T and 400 Hz, W/kg	13.0	12.1
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