HI-LITE™
HIGH PERFORMANCE - ULTRA LIGHT

NO30

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	0.30	4.13	12.1	38.0
0.2	0.06	0.99	14.4	42.3	125
0.3	0.12	1.82	29.4	86.9	
0.4	0.19	3.08	48.9	146	
0.5	0.28	4.59	73.6	223	
0.6	0.37	6.34	104	319	
0.7	0.49	8.33	141		
0.8	0.60	10.6	185		
0.9	0.74	13.1	238		
1.0	0.89	15.9	302		
1.1	1.05	19.0	377		
1.2	1.27	22.6	466		
1.3	1.52	26.8	572		
1.4	1.82	32.0			
1.5	2.14	38.1			
1.6	2.51				
1.7	2.80				
1.8	3.05				

	GUARANTEED VALUES	TYPICAL VALUES
Loss at 1.0 T and 50 Hz, W/kg	-	0.89
Loss at 1.0 T and 400 Hz, W/kg	17.0	15.9
Loss at 1.0 T and 2500 Hz, W/kg	355	302
Nominal thickness, mm		0.30
Resistivity, μΩcm		55
Density, g/cm^3		7.60
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	29	38	53	70	103
0.2	37	49	84	116	166
0.3	42	58	110	154	
0.4	46	68	134	194	
0.5	51	75	160	240	
0.6	55	83	189	292	
0.7	60	91	222		
0.8	69	101	258		
0.9	80	111	294		
1.0	93	125	344		
1.1	118	149			
1.2	158	197			
1.3	252	317			
1.4	670	770			
1.5	1990	2050			
1.6	4190				
1.7	7680				
1.8	12100				

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