

Trade name:		Brocadur AB170	Brocadur AB300	Brocadur AB350	Brocadur AB418	Brocadur AB275M
Chemical composition (in % of weight)	Cr	-	-	-	-	-
	Zr	-	-	-	-	-
	Co	-	-	1.0	2.0	-
	Ni	-	-	-	-	5.0
	Fe	3.5	4.5	4.0	-	4.8
	Al	11.0	13.0	14.0	14.0	10.5
	Mn	-	-	2.0	2.0	-
	P	-	-	-	-	-
	Others	max. 2.0	max. 2.0	max. 0.5	max. 0.5	max. 0.5
Cu	remainder	remainder	remainder	remainder	remainder	
Mechanical properties (standard values at 20° C):						
Hardness Brinell	HB 30	160-180	270-320	340-400	400-450	270-290
Tensile strenght	N/mm ²	600-700	700-800	550-700	400	850-950
0,2% - yield strenght	N/mm ²	200-300	350-450	500-600	400	700-800
Elongation A 5	%	15 min.	1 min.	0 min.	0 min.	4-6 min.
Modules of elasticity	N/mm ²	115 x 10 ³	103 x 10 ³	110 x 10 ³	110 x 10 ³	103 x 10 ³
Physical properties (Standard values at 20° C):						
Specific weight	g/cm ³	7.5	7.25	7.25	7.25	7.45
Thermal conductivity	W/mK	63	42	50	50	42
Electrical conductivity	% IACS	14	10	8	8	8.2
Thermal expansion coefficient	20-300C	16.0 x 10 ⁻⁶ /K	16.0 x 10 ⁻⁶ /K	16.0 x 10 ⁻⁶ /K	16.0 x 10 ⁻⁶ /K	16.0 x 10 ⁻⁶ /K
Forms of delivery:						
Round drawn		o				
Round forged		o	o	o	o	o
Flat, square, hexagon drawn		o				
Flat, square forged		o	o	o	o	o
Forged plates		o	o	o	o	o
Cut from forged round bar / plate		o	o	o	o	o
Cut from premachined round bar / plate		o	o	o	o	o

Note: N/mm² = 1MPa

1MS/m = 1 m/Qmm²

100% IACS = 58 MS/m