

Trade name:		Brocadur AB170	Brocadur AB275	Brocadur AB300	Brocadur AB350	BrocadurAB418
<b>Chemical composition</b> (in % of weight)	Cr	-	-	-	-	-
	Zr	-	-	-	-	-
	Co	-	-	-	-	-
	Ni	-	-	-	-	-
	Fe	3.50	4.50	4.50	-	-
	Al	11.00	13.00	14.50	-	-
	Si	-	-	-	-	-
	P	-	-	-	-	-
	Others	2.00	2.00	2.00	-	-
	Cu	remainder	remainder	remainder	-	-
<b>Mechanical properties</b> (standard values at 20° C):						
Hardness Brinell	HB 30	160-180	250-300	300	330-370	418
Tensile strenght	N/mm <sup>2</sup>	600-700	700	700	1500	1515
0,2% - yield strenght	N/mm <sup>2</sup>	200-300	400	400	689	689
Elongation A 5	%	15	1	0.5	0	0
Modules of elasticity	N/mm <sup>2</sup>	115 x 10 <sup>3</sup>	105 x 10 <sup>3</sup>	103 x 10 <sup>3</sup>	103 x 10 <sup>3</sup>	110 x 10 <sup>3</sup>
<b>Physical properties</b> (Standard values at 20° C):						
Specific weight	g/cm <sup>3</sup>	7.5	7.2	7.1	7.0	7.0
Thermal conductivity	W/mK	63	42	42	33	33
Electrical conductivity	% IACS	14 (8 MS/m)	10 (6 MS/m)	10 (6 MS/m)	8 (4 MS/m)	8 (4 MS/m)
Thermal expansion coefficient	20-300C	16.0 x 10 <sup>-6</sup> /K	16.0 x 10 <sup>-6</sup> /K	16.0 x 10 <sup>-6</sup> /K	16.0 x 10 <sup>-6</sup> /K	16.0 x 10 <sup>-6</sup> /K
<b>Forms of delivery:</b>						
Round drawn		o	o	o	o	o
Round forged		o	o	o	o	o
Flat, square, hexagon drawn		o	o	o	o	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/mm<sup>2</sup> = 1MPa

1MS/m = 1 m/Ωmm<sup>2</sup>

100% IACS = 58 MS/m