



## To Whom It May Concern

We, Lorünser Austria GmbH, Bahnhofstrasse 9, 6824 Schlins, Austria, confirm, that our products are made acc. these conditions:

1.Ambient temperature:	-40°C/+40°C
2.Aluminum Alloy:	AlSi7Mg0,3
3.Operating Conditions:	Outdoor
4.Nominal Frequency:	50Hz
5.Electrical Conductivity:	20-27MS/m
6.Thermal Conductivity:	160-180W/(mk)
7.Tempering degree:	T6
8.Mechanical strength:	8.1. For circuit breaker - 1500 N
	8.2. For disconnecter - 1500 N
	8.3. For surge arrester - 2820 N
	8.4. For post insulator - 4000 N
	8.5. For current transformer - 1500 N
	8.6. For voltage transformer - 1500 N

Lorünser Austria GmbH





## Material Data

For used Aluminium

		Sand casting EN AB-ALSi7Mg0,3	Permanent mould EN AB-ALSi9Mg DV	Die forged AlMgSi1 F30/F31	AlMg3
Aluminium composition	Si	6,50-7,50 %	9,00-10,00 %	0,70-1,30 %	0.40%
	Fe	max. 0,15 %	max. 0,15%	0.50%	0.40%
	Cu	max. 0,03 %	max.0,03 %	0.10%	0.10%
	Mn	max. 0,05 %	max. 0,05 %	0,40-1,00 %	0.50%
	Mg	0,35-0,42 %	0,35-0,42 %	0,60-1,20 %	2,60-3,60 %
	Zn	max. 0,07 %	max. 0,07 %	0.20%	0.20%
	Ti	0,10-0,15 %	max. 0,10 %	0.10%	0.10%
	Sr	-	0,025-0,054	-	-
	Ca	max. 30 ppm	max. 30 ppm	-	-
Tensile strength	R <sub>m</sub>	-	190	300	190
	R <sub>m</sub> (T6)	230	250	-	-
Elongation	A <sub>5</sub>	-	4-7	5-6	12
	A <sub>5</sub> (T6)	2-5	4-7	-	-
Brinell hardness	HB 5	-	75	90-115	50
	HB 5 (T6)	85	85	-	-

## Material Data

For used Bolts

Quality	Tightening torques	
A2F80	M10	45 Nm
		75 Nm
		150 Nm