



# ALBRO1.1

## technical datasheet

### CHEMICAL COMPOSITION

Cu	Zn	Al	Fe	Ni	Mn	Other
Rest		10,5	3,5		0,5	

### DESCRIPTION OF MATERIAL

This Alluminium Bronze, contains approximately 10,50% Alluminium, 3,50% Iron. It has a good deformation and wear resistance with good sliding properties under load.

### MECHANICAL PROPERTIES

Production Method	SCRM	CCRM	FRM
Tensile Strenght (Rm) N/mm <sup>2</sup>	610-720	650-760	620-730
Yield Strenght (Rp 0,2) N/mm <sup>2</sup>	310-350	320-390	280-310
Elongation (A5) %	12-16	12-16	13-15
Hardness (HB 30)	160-180	180-210	190-230
Elastic Modulus	115 x 10 <sup>3</sup> N/ mm <sup>2</sup>		

\*\*\* SCRM: Sand Cast R.M, CCRM: Centrifugally Cast R.M, FRM: Forged & Rouh Machined

### PHYSICAL PROPERTIES

Density	: 7,45 g/ cm <sup>3</sup>
Specific Heat	: 0,42 j/g.k
Electrical Conductivity	: 8 MS/ m
Electrical Conductivity (I.A.C.S.)	: 14 %
Termal Conductivity	: 59-63 W/ m.K
Coefficient of Thermal Expansion	: 16,0 X 10 <sup>-6</sup> /K

### APPLICATIONS

It uses as gears, bearings bushings, part of plastic injection moulds.