



# S.C. AMCO OTOPENI<sup>®</sup> S.A.

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## BUSHINGS FOR GLASS FIBRE PRODUCTION

Bushing is a prismatic platinum- rhodium alloy box, which in upper side has a finely perforated sheet through which the molten glass flows and in the lower side the fibres are drawn through the tips in the tip-plate of the bushing. The obtained thin glass fibres have 5 to 13  $\mu\text{m}$  diameters .

Bushing ensure the constant and uniforme distribution of temperature in the molten glass. The measurement of the temperature is made using a Pt- Pt+Rh thermocouple, mounted in the lower side of the bushing.

The precious metals ( platinum and rhodium ) can be ensured by the customer ( either from the spent bushings and auxiliary equipments which are recycled, or from fine metals) or by AMCO OTOPENI S.A. by aquisition on the market.

The product configuration ( the technical project, constructive data, exploitation conditions ) are confidential and agreed with each customer.

### TECHNICAL DATA:

MATERIALS:	Pt+Rh alloys (90Pt10Rh; 87Pt13Rh, 80Pt20Rh)
MATERIALS PURITY :	Platinum 999,5 ‰ Rhodium 999,0 ‰
WORKING TEMPERATURE :	1250 ° C
ELECTRIC CURRENT INTENSITY:	2000 + 3000 A/mm <sup>2</sup>
ELECTRICAL VOLTAGE:	4,5 + 5,5 V
GLASS QUALITY:	Glass type E; D; C
GLASS FILAMMENT DIAMETER:	5 + 13 $\mu\text{m}$
TIPS NUMBER ON THE TIP-PLATE:	200 + 1600
INTERNAL DIAMETER OF THE TIP:	1,25; 1,7; 1,8; 1,9; 2,0 mm
TIP:	welded
AUXILIARY EQUIPMENT:	
- THIMBLES	
- LEVEL METTERS	
- PLATINUM ALLOYS EQUIPMENT FOR THE MELTING FURNACES	
- THERMOCOUPLE Pt –PtRh 13	

### ORDERING:

The order will specify:

- product name ;
- constructive data;