

7.3.9 PREPARING ANODE MOULD DRESSING MATERIAL

SPECIAL EQUIPMENT REQUIRED =>

According to the local practice

INTRODUCTION

Dressing material eases the removal of the cast anode from the mould. During normal operation mould dressing is done at mould dressing section.

795390-4

Typical features for the dressing material:

- makes good insulation between copper mould and anode
- does not react with molten copper
- does not consist of crystal water
- is easily washed out from anode in bosh tank
- cheap and fine grained material
- does not cause environmental problems

The following dressing material is used by Outokumpu Harjavalta smelter:

100 L

Water

100 kg

BaSO4 x) -

1 L

Waterglass xx)

Density of the mixture is about 1,6 kg/dm3

x) Analyse of BaSO4:

BaSO4 Min. 95% Fe203 Max.0,25% SiO2 1,25% A.1203 0.3% 0,4-0,5% CaO " Pb 0.15% Cu 0,03% Mn 0,05-0,06% PSYSOE => 3,96

Specific gravity: 4,25 kg/dm3 Soluble in water: 0,38%

Grain size: Mesh 400 Min. 82%

xx) Waterglass:

Water solution of Natrium Silicate consisting 35% of Na2SiO3 (the density of the mixture is 1,296 ... 1,396 kg / dm3 according to DAB 6.)