



## CAM MOP30 BALL MILL

HIGH YIELD, EXCELLENT QUALITY!

### UNIQUE COOLING SYSTEM

The CAM MOP30 is a ball mill which produces lead oxide from the tumbling, and thus the abrasion between lead cylinders introduced into the drum. This method is pushed to the highest quality levels thanks to an advanced control system resulting from many years of research in our R&D department. Indeed it has been proven that even small variations in working parameters can have an important influence on oxide quality. In order to guarantee the most consistent production and quality levels, the CAM MOP30 is equipped with an advanced control system with a number of sensors and probes. All of the data

are constantly monitored by a complex program using the latest software that has been fine-tuned in the CAM laboratories over the years. This software assists the operator in regulating every aspect of production. The entire process is completely automatic, involving the operator mainly in supervision activities.

The main benefits of the CAM MOP 30 are:

- ✓ Up to 30 tons of lead oxide /day
- ✓ Overall consistent quality
- ✓ Innovative Control Software



Find out more!  
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# WE SOLVE REAL ISSUES

## CAM MOP30: MAINTAINING QUALITY BATCH BY BATCH

One of the main objectives that all battery manufacturers strive to achieve is to produce consistently high-quality lead oxide throughout every batch. In fact, it is not easy to achieve this due to the chemical-physical process involved. The high reactivity to oxygen makes this process particularly sensitive to even the smallest variation in the basic parameters. The solution implemented by CAM Srl in the MOP 30 Ball mill is an innovative system of balancing tem-

perature and the flow of oxygen inside the mill drum. Therefore, producing high quality oxide depends greatly on the characteristics of the artificially created micro-climate, on specific elements of the mill's structural design, and on a complex matrix of regulations implemented throughout the entire production time.

## TECHNICAL DATA SHEET

### CHEMICAL-PHYSICAL PROPERTIES OF CAM OXIDE

#### DESCRIPTION

Grain Size < 44 µm:

Acid reaction time

Acid Absorption

Apparent Scott Density:

Water Absorption:

#### VALUE

(94 ÷ 98) %

(20 ÷ 60) s

(200 ÷ 260) mg H<sub>2</sub>SO<sub>4</sub>/g PbO

(1,00 ÷ 1,20) gr/cm<sup>3</sup>

(10,5 ÷ 12,5) cm<sup>3</sup> H<sub>2</sub>O/100g oxide

### CAM MOP30 BALL MILL WORKING PARAMETERS

#### DESCRIPTION

Mill ballast weight

Pipe temperature

Speed of drum rotation

Production

Oxide ageing in silos

#### VALUE

8000 ± 9500 Kg

110 ± 152 °C

23 ± 25 rpm

920 ± 1350 kg/h

At least 48 hours/better 72h

### OXIDATION AND HOURLY PRODUCTION RATIO

#### DEGREE OF OXIDATION

70%

71%

72%

73%

74%

75%

76%

#### HOURLY PRODUCTION [kg/h]

1350

1290

1240

1180

1125

1050

920



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