

SECRET/ CONTROL U. S. OFFICIALS ONLY
SECURITY INFORMATION

50X1-HUM

German Democratic Republic

ELEKTROCHEMISCHES KOMBINAT BITTERFELD

[redacted]
[redacted]
[redacted]
[redacted]
[redacted] the Elektrochemisches Kombinat (Electro-Chemical Combine) in Bitterfeld. [redacted]
[redacted]

The EK Bitterfeld is one of the three GDR industries permitted to produce certain nonferrous alloys; these alloys are used in products which may not be made with substitute materials. The alloys produced at Bitterfeld include: Special brass, SoMs 68, consisting of 68 % copper, the balance zinc and hardeners. Zinc bearing metal, consisting of 92 % of 99 % pure zinc, 5 % copper, 2 % lead, and 1 % tin; this metal will support a compression of 250 kg/cm². Zinc-aluminum-copper alloys for precision work; this alloy, said to be equal to the best lead bronze, ~~minum~~ contains 53 % zinc, 45 % aluminum, and 2 % copper. Hardened lead bearing metal consisting of 98 % lead, 0.62 % cadmium, 0.04 % silicon, 0.02 % aluminum, and small additions of sodium and calcium. The plant also produces lead bronzes which contain no tin; these so-called binary lead bronzes contain 75 % copper and 25 % lead.

[redacted] in the first quarter of 1952 the plant produced 480 tons of nonferrous metal alloys; [redacted] the average production of about 164 tons per month cannot be increased.

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