

## 2.C.6 - Zinc Production

### Short description

Within this NFR sub-category, SO<sub>2</sub>, PM<sub>2.5</sub>, PM<sub>10</sub>, TSP, As, Cd, Hg, Pb, Zn, PCDD/F, and PCB emissions from the production of zinc are reported.

Method	AD	EF	Key Category
T1	AS	D, CS	no key category

### Methodology

#### ++ Activity data

The yearly production figures were taken from the annual statistical report of the German association for non-ferrous metals <sup>1)</sup>.

#### ++ Emission factors

The emission factors are either default values according to the 2016 EMEP/EEA air pollutant emission inventory guidebook or determined in several research projects. The EF for the heavy metals (HM) are taken from a research project <sup>2)</sup>.

Table 1: Tier1 emission factors applied for entire time series

~ Pollutant	~ EF	~ Unit
SO <sub>2</sub>	> 1.35	kg/t
PM <sub>2.5</sub>	> 0.0385	kg/t
PM <sub>10</sub>	> 0.0613	kg/t
TSP	> 0.100	kg/t
As	> 123.882	mg/t
Cd	> 1,085.046	mg/t
Hg	> 0.5	g/t
Pb	> 19,604.578	mg/t
Zn	> 51.968	mg/t
PCDD/F	> 0.15	µg/t

#### + Recalculations

With activity data and emission factors remaining unrevised, no recalculations have been carried out compared to last year's submission.

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For more information on **recalculated emission estimates for Base Year and 2017**, please see the pollutant-specific recalculation tables following chapter [8.1 - Recalculations](#)].

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+ Planned improvements No category specific improvements are planned.

**bibliography** : 1: German association for non-ferrous metals (Wirtschaftsvereinigung Metalle): Annual statistical report: <https://www.wvmetalle.de> : 2 : Ökopol, IER, IZT, IfG: Bereitstellung einer qualitätsgesicherten Datengrundlage für die Emissionsberichterstattung zur Umsetzung von internationalen Luftreinhalte- und Klimaschutzvereinbarungen für ausgewählte Industriebranchen Teilvorhaben 2: NE-Metallindustrie, Kalkindustrie, Gießereien. **bibliography**

<sup>1)</sup> (bibcite 1)

<sup>2)</sup> (bibcite 2)