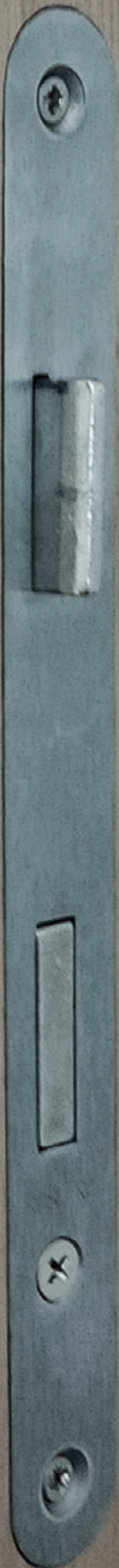


GRILLO

ZEP Zinc
Extrusion
Products

*The new generation of efficient
and sustainable zinc alloys*





ZEP – optimized quality, lead-free and sustainable.



New manufacturing technique

Sophisticated production technologies guarantee optimized material qualities during the whole process. Fundamental quality advantages are achieved using new technologies for the production of the raw material. An extreme homogeneous base material allows extrusion in the finest and best shapes. The finishing creates the tolerance and straightness the customer requires.



Excellent environmental sustainability

ZEP is produced from pure zinc and alloyed with pure aluminium and thus environmentally clean. All ZEP products comply with European standards for lead. ZEP is fully recyclable and offered in a closed loop system. CO₂ footprint is minimised from cradle to grave for your product made from ZEP.



30-40% cost savings

A basic cost saving is possible as the ZEP bars have a reduced density compared to other materials. At the same time the base metal prices are significantly lower compared to other materials. New and advanced technology allows cost effective production. Finally, the energy needed to transform the bars into the final products can be reduced.

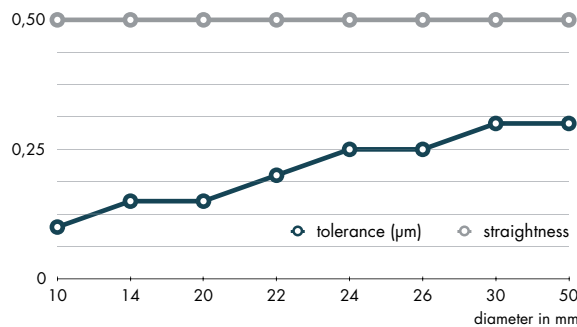


Wide range of application

Flexible production and a wide range of alloys allow the ZincExtrusionProducts to fulfil your demands. Please contact us to create a product which fits your application.



Tight tolerances



The extreme fine tuning of the finishing steps allows us to guarantee very near tolerances.



The new generation of zinc alloys

ZEP bars for the use in machining and forging are a real revolution. They meet the demands of future environmental legislation. They offer cost efficient production and reduce the overall CO₂ footprint.



Multiple transformations

machining	chip shape	favourable chip shape
	cutting forces	comparable with standard materials, superior compared with other lead-free alloys
	surface roughness	comparable with standard materials
	wear on tools	comparable with standard materials
working	forgeability	advantageous forgeability
	process temperature	remarkably lower than standard materials
polishing		yes
coating process		yes



100% recyclable

These zinc products are 100% recyclable. Since they do not lose their properties with time, they can be used up to the end of their lives. It goes without saying, that we take back turnings and other zinc scrap.





Technical data of our standard products



composition

Al	2 – 18	%
Cu	0.5 – 3.0	%
Mg	< 0.1	%
Zn	Rest	

properties

tensile strength	380 – 500	MPa
yield strength	350 – 480	MPa
elongation	6 – 25	%
Young's modulus	90 – 120	GPa
density	~ 5.3 – 7	g/cm ³



Grillo ZEP is available in round, hexagonal or flat shapes, special shapes on demand. Diameters range from 8 mm to 50 mm. Our standard length is 300 mm to 3,000 mm.



Grillo-Werke AG

Metal Division

Business Unit Extrusion Products

Weseler Straße 1

47169 Duisburg, Germany

telephone: +49 203 5557-0

e-mail: metall@grillo.de

www.grillo.de

