STAINLESS STEEL FORKS

FORKS
Solid material

HIGHEST LEVEL OF SAFETY IN EXPLOSION-PROOF AREAS

FEATURES

- ATEX-certified
- Highest level of safety
- Long service life
- Easy to clean
- Best overall cost efficiency

Solid stainless steel forks are always explosion-proof and therefore ATEX-certified, which also means that the product provides the highest level of safety. Stainless steel forks are the top choice in areas with high demands on hygiene: Their smooth surface is easy to clean and prevents deposits and dirt. An additional advantage is the high level of corrosion resistance.

Solid stainless steel forks have three times the lifespan of coated forks. In addition, you never need to renew the cladding, which would lead to costs and standstills. This makes the forks a long-term cost and time efficient choice.

The fork pockets of pallets and goods that are transported are sometimes too small for cladded forks. With solid stainless steel forks, it is possible to achieve the same capacity with significantly smaller cross-sections.

The forks are manufactured in accordance with ISO 2330 (minimum safety factor 3 and 1,000,000 load cycles with 25% overload). The steel in the forks is of the highest quality which guarantees the necessary toughness, purity, hardness and ability to withstand severe long-term stress.

APPLICATIONS

Potentially explosive environments

Food industry

Chemical industry

Fish industry

Hagaberg

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	Stainless steel cladding	DuplEx cladding	Solid stainless steel fork (hygiene design)	Solid stainless steel fork (Ex - design)
ATEX Certification	Yes, however, DIN EN 1755 recommends: a special characteristic at the underside of the fork to allow wear measurement.	Yes	Not necessary	Yes
Material	Cladding: Stainless steel 1.4301	Cladding: stainless steel 1.4301 + brass 2.0321	VQ46	VQ46
Ex -proof	Until the wear limit is reached, i.e. 1 mm remaining cladding thickness.	Until the wear limit of 1 mm remaining cladding thickness is reached (visual wear indicator).	Not used in ex-proof areas	Ex-proof is ALWAYS guaranteed
Durability	3 mm wear limit	4 mm wear limit	10 % of the fork cross-section (ISO 5057) + 8 mm additional OptimaForkHeel +2 times higher resistance to wear by the use of high-tech steel = up to 6 times higher durability	
Cross-section fork	+ 10 mm	+ 12 mm	+ 0 mm	+ 0 mm
Surface	Untreated (optionally glass bead blasted, polished). For hygiene areas we recommend a polished surface.	Untreated (optionally glass bead blasted, polished). For ATEX areas we recommend a glass bead blasted surface.	Polished	Glass bead blasted
Service expenditure wear measuring	Daily measuring and recording of cladding thickness is mandatory to ensure safe application.	Daily visual control of the integrated wear indicator that offers ex-proof examination at a glance.	Regular measurement of wear limit (according to ISO 505)	
Service expenditure fork exchange	Exchange of forks as soon as the wear limit of the cladding is reached.	Exchange of forks as soon as the wear limit of the cladding is reached	Due to the higher total wear zone and the use of high-tech steel, forks need to be exchanged 6 times less.	
Risk of corrosion	Possible corrosion of un-cladded areas.	Possible corrosion of un-cladded areas.	Non-corrosive	
Application hygiene: Cleaning	Easy cleaning of cladding, however, danger of deposits in interspaces.	Easy cleaning of cladding, however, danger of deposits in interspaces.	Easy and hygienic cleaning (no interspaces).	
Conclusion	Stainless steel claddings are work-intensive in ex-proof areas (daily wear measurement). Hence, they are only partially advisable for this application. In hygiene areas they are an inexpensive, but not 100% hygienic alternative to stainless steel forks.	Our standard in ex-proof areas: DuplEx claddings offer benefits in terms of high safety and low service expenditure.	Stainless steel forks (hygiene and ex-proof) are cost-performance winners. The purchase price is paid off immediately by significantly longer lifetime, higher safety and less service efforts.	