Mechanische Verbindungselemente

Technische Lieferbedingungen Feuerverzinkte Teile

Fasteners: technical specifications, hot dip galvanized parts

Éléments de fixation; spécifications techniques, pieces galvanisées à chaud

Ersatz für Ausgabe 03.77

Madber in more

Anwendungsbereich

Diese Technischen Lieferbedingungen gelten für mechanische Verbindungselemente (im wesentlichen Schrauben und Muttern) mit Regelgewinde M 6 bis M 36 und mit Zinküberzügen durch Feuerverzinken sowie mit Festigkeitsklassen bis einschließlich 10.9 für Schrauben bzw. 10 für Muttern. Die in dieser Norm festgelegten Mindestschichtdicken gelten auch für fouerverzinkte mitverspannte Elemente (Scheiben rund Flimpell.

Allgemeines

Bei mechanischen Verbindungselementen mit Zinküberzügen durch Feuerverzinken gilt im aligemeinen als Hauptmerkmal die Schichtdicke des Zinküberzuges und nicht dessen Flächengewicht. Diese Norm legt daher vornehmlich die Schichtdicken, deren Bezeichnung und Prüfung fest. Soll im Einzelfall das Flächengewicht zugrunde gelegt werden, so git: 100 um Schichtdicke a 700 g/m2 Flächengewicht.

Die Grundabmaße des Bolzengewindes mit iSO-metrischem Profit und der Toleranz fig sind für das Aufbringen der in Abschnitt 4 festgelegten Mindestschichtdicken nicht ausreichend. Um zu erreichen, daß die Gewindepaarung Schraube/ Mutter nach dem Feuerverzinken funktionsfähig ist, gibt es zwei Möglichkeiten:

- a) Das ISO metrische Botzengewinde muß die Toleranzfeldlage a nach DIN 13 Teil 15 und somit die Grundabmaße nach Tabelle 1 haben und vor dem Feuerverzinken innerhalb der Toleranzklasse & (Produktklasse G) bzw. der Toleranzklasse 6 (Produktiklasse A) liegen. Durch den Überzug darf die Nullinie des Botzengewindes nicht überschritten
- b) Das für das Aufbringen des Zinküberzuges erforderliche Abmail wird in die Mutter gelegt, so daß das Bolzengewinde nach dem Verzinken die Nullinie überschreiten darf. Dieses Vorgeben ist möglich, wenn Schraube und Mutter zusammen, d. h. als Garnitur, geliefert werden.

Das Bolzengewinde darf nach dem Feuerverzinken nicht nachgeschnitten werden. Die Mindestmaße des feuerverzinkten Gewindes ergeben sich aus den Mindestmaßen vor dem Feuerverzinken plus der Mindestschichtdicke (siehe Tindowskie 15.

Muttergewinde werden nicht feuerverzinkt, sondern nachträglich in den feuerverzinkten Rohling eingeschnitten.

Die Grenzahmaße nach DIN ISO 4759 Teil 1 gelten vor dem Feuerverzinken. Durch das Feuerverzinken darf die Montierbarkeit der Teile nicht beeinträchtigt werden.

Graues Ausselten von Zinküberzügen ist werkstoffbedingt und nicht Qualitätsmerkmal des Korrosionsschutzes.

Anforderungen an Zinküberzüge auf Gegenständen aus Eisenwerkstoffen, die als Fertigteile feuerverzinkt werden. siehe DIN 50 976.

Für die Beurteilung der mechanischen Eigenschaften gelten. DIN ISO 898 Tell 1 und Tell 2 bzw. DIN 267 Tell 4. Abweichend dazu sind iedoch wegen des relativ großen Gewinde-Grundabmaßes (Toleranzfeldiage a) bzw. der verminderten Flankenüberdeckung von Bolzen- und Mutterpewinde die Mindestbruch- und Prüfkräfte kleiner (siehe Tabellen 3 und 4).

3 Bezeichnung

Feuerverzinkte Verbindungselemente sind nach den jeweilieen Maßnormen zu bezeichnen. Für die Feuerverzinkung giltdas Kurzzeichen tZn nach DIN 50 976. Durch dieses Kurzzeichen wird gleichzeitig die Schichtdicke entsprechend Tabelle 1 erfaßt (Mindestschichtdicke an der Meßstelle). Bezeichnungsbeispiel:

Bezeichnung einer Sechskantschraube DIN 601 - M 12 × 50 der Festigkeitsklasse 4.6 mit Zinküberzug durch Feuerverattendesion (ECC) nitr.

Sechskantschraube

DIN 601 - M 12 × 50 - 4.6 - tZn

Gewinde-Grundabmaße und Schichtdicken sowie Gewinde-Grenzmaße für Schrauben

Die Tabelle 1 enthält die Grundabmaße nach Toleranzfeldlage a für Bolzengewinde und die Mindestschlichtdicken an der Medistelle (siehe Abschnitt 7.2.t).

In Tabelle 2 sind die Gewinde-Grenzmaße vor dem Feuerverzinken autgeführt.

Tabello 1. Grundabmaße im Bolzengewinde und Mindestexclude the effection to ex-

Regelgewinde	Gewinde- steigung	Grund- abmaß Ac ym	Mindest- schichtdicke an der Medatelle jum
M 6	1	- 290	40
M o	1.25	- 295	40
M 10	1.5	- 300	40
M 12	1.75	- 310	40
M 14; M 16	2	- 315	40
M 18; M 20; M 22	2.5	- 325	40
M 24; M 27	3	- 335	40
M 30; M 33	3.5	- 345	40
M 36	4	- 355	40

Fortsetzung Seite 2 bis 5

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 - The Rise of Digital Reading Din 267 Pdf Amboh Hol
 - Advantages of eBooks Over Traditional Books
- 2. Identifying Din 267 Pdf Amboh Hol
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
- 3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Din 267 Pdf Amboh Hol
 - User-Friendly Interface
- 4. Exploring eBook Recommendations from Din 267 Pdf Amboh Hol
 - Personalized Recommendations
 - Din 267 Pdf Amboh Hol User Reviews and Ratings
 - Din 267 Pdf Amboh Hol and Bestseller Lists
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- Din 267 Pdf Amboh Hol Budget-Friendly Options
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 - Din 267 Pdf Amboh Hol Enhanced eBook Features
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 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Din 267 Pdf Amboh Hol
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
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 - Setting Reading Goals Din 267 Pdf Amboh Hol
 - Carving Out Dedicated Reading Time
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 - o Fact-Checking eBook Content of Din 267 Pdf Amboh Hol
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