

Chemical Anchor

Technical Data Sheet

Short Description

High-performance chemical anchoring system designed for heavy-duty fastening applications in concrete and masonry substrates. Suitable for structural, construction, industrial, and infrastructure installations requiring superior load-bearing performance.

Product Overview

Chemical Anchors provide strong bonding between threaded rods or rebar and base materials through chemical adhesion. The system typically consists of a threaded rod, resin capsule or injectable chemical compound, and drilled hole preparation to ensure secure anchorage.

Canco Fasteners manufactures chemical anchoring systems in compliance with international quality standards or customer-approved drawings, supporting OEM programmes, distributor supply, and bulk export requirements.

Quick Specifications

Material Options (Threaded Rod)

- Carbon Steel
- High Tensile Steel (Grade 8.8 / 10.9)
- Stainless Steel (AISI 304)
- Stainless Steel (AISI 316)
- Other grades subject to specification

Resin Type Options

- Polyester Resin
- Vinylester Resin
- Epoxy Resin
- Capsule or Injectable Type

Surface Finish Options (Rod)

- Zinc Plated
- Hot-Dip Galvanised
- Plain / Self-colour

- Stainless Steel (Natural Finish)

Size Range

Available in multiple diameters and lengths (e.g., M8 to M30 or as required). Custom lengths available subject to drawing approval.

Standards

Manufactured as per applicable international standards or customer specifications. Testing and compliance documentation available upon request.

Customisation Availability

- Custom rod lengths
- Special thread configurations
- Resin grade modifications
- Private-label packaging
- Bulk export supply

Technical Specification Sheet

Product Description

Chemical anchoring system designed for high load transfer through chemical bonding between anchor rod and base material. Suitable for cracked and non-cracked concrete depending on resin type.

Components

- Threaded Rod (Chamfered or Flat End)
- Resin Capsule / Injectable Chemical
- Washer and Nut (if applicable)

Manufacturing Process (Rod)

- Thread rolling or thread cutting
- Heat treatment (where applicable)
- Surface finishing and coating
- Quality inspection and dimensional control

Material Grades

- Mild / Carbon Steel
- High Tensile Steel (8.8 / 10.9)

- Stainless Steel 304
- Stainless Steel 316

Surface Finishes

- Zinc plated
- Hot-dip galvanised
- Plain finish
- Stainless steel natural finish

Testing & Inspection

- Dimensional inspection
- Thread gauge verification
- Tensile strength testing
- Pull-out testing (upon request)
- Material certification (EN 10204 3.1 upon request)

Typical Applications

- Structural steel connections
- Base plate anchoring
- Rebar doweling
- Machinery installation
- Bridge and infrastructure projects
- Heavy equipment fixing

Installation Note

Proper hole drilling, cleaning (blow-brush-blow method), and correct resin injection are critical for achieving designed load capacity. Curing time varies depending on resin type and ambient temperature. Always follow recommended installation procedures.

Export & Packaging

Available in:

- Individual kits
- Bulk cartons
- Palletised loads

- Private-label packaging

Canco Fasteners manufactures chemical anchoring systems strictly to approved standards or customer drawings. Products are available for OEM programmes, distributor supply, and containerised export shipments.

For bulk supply or OEM enquiries:

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