



PISTON RINGS

Precision Sealing Solutions
for a More Reliable Engine



DRIVE A BETTER TOMORROW
TEMCO AUTO PARTS



Sealing
Performance



Lower
Oil Consumption



High Temperature
Resistance Endurance



Long
Service Life

www.0086parts.com

Why Piston Rings Matter

Small Component. Critical Engine Function.



Gas Sealing

Prevents combustion gas leakage



Oil Control

Regulates oil consumption



Heat Transfer

Transfers heat to cylinder wall



Durability

Withstands high temperature, pressure and friction



Piston Ring Structure & Types

Different Rings. Different Functions.



Compression Ring

Second Ring

Oil Control Ring



Compression Ring

Gas sealing & wear resistance

- Seals combustion gas
- Withstands high temperature and pressure
- Provides wear resistance



Second Ring

Secondary sealing & oil scraping

- Enhances sealing performance
- Scrapes excess oil from cylinder wall
- Helps control oil consumption



Oil Control Ring

Oil regulation & cylinder wall lubrication

- Controls oil film thickness
- Scrapes and returns excess oil
- Keeps engine clean and efficient

**Precision in every ring.
Performance in every engine.**

TEMCO Piston Ring Program

Wide Coverage for Global Markets



Compression Rings



- Standard
- Chrome Plated
- Nitrided
- Molybdenum Coated

Second Rings



- Cast Iron
- Ductile Iron
- Coated Options

Oil Control Rings



- 3-Piece
- 2-Piece
- Steel / Alloy Options

Application Coverage



- Passenger Cars
- Commercial Vehicles
- Diesel & Gasoline Engines
- Agricultural & Industrial

Available configurations depend on application and specification.

Surface Technology

Engineered to Perform in Demanding Conditions



Gas Nitriding



- Higher surface hardness
- Better wear resistance
- Anti-corrosion

Molybdenum Spraying



- Anti-scuffing
- Excellent lubrication
- Oil retention

Chromium Plating



- Superior wear resistance
- Anti-oxidation
- Longer service life

Phosphating



- Better running-in
- Good oil retention
- Lower environmental standards

Oxidation



- Anti-seizure
- Improved break-in
- Engine protection

Different Engines. Different Solutions. TEMCO Delivers.

Molybdenum Coating

Built for Severe Friction Conditions



Porous molybdenum coating structure with excellent oil retention.



ANTI-SUFFING

Strong anti-suffing performance



OIL RETENTION

Porous structure retains oil



HIGH LOAD PROTECTION

Improves lubrication under demanding conditions

Manufacturing Process

Precision Manufacturing for Reliable Performance



Chromium Plating

Enhanced Durability for Longer Service Life



Uniform Coating



- Uniform thickness
- Excellent adhesion
- Stable performance

High Hardness



- Higher surface hardness
- Better wear resistance
- Extended service life

Corrosion Resistance



- Strong anti-corrosion performance
- Withstands harsh environments
- Maintains stable operation

Wide Application



- Passenger cars
- Commercial vehicles
- Diesel & gasoline engines
- Various engine types

Process Flow & Quality Control

From Raw Material to Reliable Piston Rings



RELIABLE PARTS
FOR A SMOOTHER WORLD.

01 Raw Material Preparation



- High-grade spring steel
- Chemical composition control
- Incoming inspection
- Stable material quality

02 Ring Forming



- Precision forming
- Stable dimensions
- Automatic process control
- Consistent ring shape

03 Heat Treatment



- Controlled atmosphere
- Uniform hardness
- Optimized mechanical properties
- Enhanced fatigue resistance

04 Surface Treatment (Nitriding / Molybdenum / Chromium Plating)



- Improved wear resistance
- Reduced friction
- Corrosion protection
- Longer service life

05 Grinding



- High precision grinding
- Excellent surface finish
- Strict tolerance control
- Stable performance

06 Gap Cutting & Deburring



- Accurate end gap
- Smooth edges
- No burrs

07 Cleaning



- Ultrasonic cleaning
- Remove residues
- Ensure surface cleanliness
- Ready for final inspection

08 Final Inspection & Packaging



- Full dimensional check
- Appearance inspection
- Performance verification
- Secure and professional packaging

Quality Control Throughout the Process

Multiple inspections ensure consistent quality and reliable performance.



SPECTROMETER
Material analysis



HARDNESS TEST
Mechanical properties



DIMENSIONAL CHECK
Size & roundness



SURFACE ROUGHNESS
Surface finish



MICROSTRUCTURE
Metallographic analysis



VISUAL INSPECTION
Appearance check



PACKAGING CHECK
Label & quantity

Quality Performance

Consistent Quality Through Strict Control

01 Incoming Material Control



- High-grade steel
- Chemical composition analysis
- Strict incoming inspection
- Stable and consistent material quality

02 In-Process Quality Control



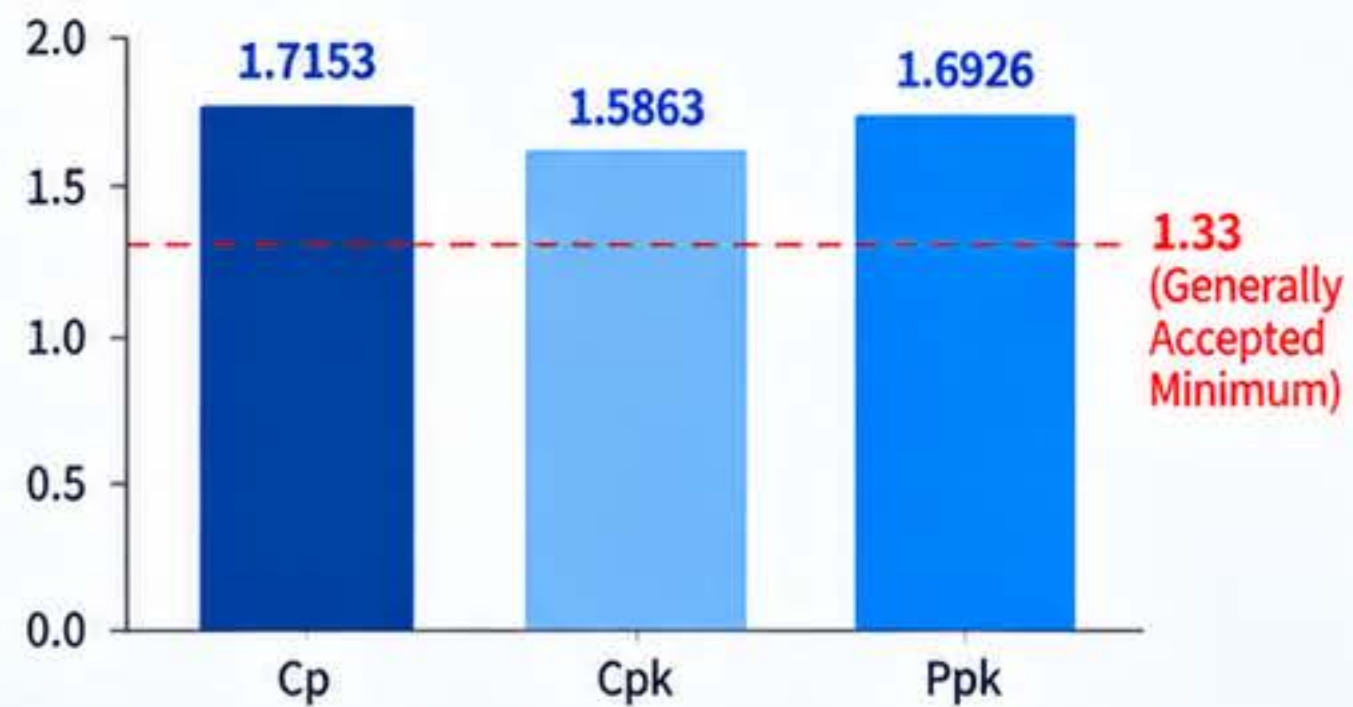
- Dimension inspection at key process
- Real-time process monitoring
- SPC control
- Ensure consistency and stability

03 Finished Product Inspection

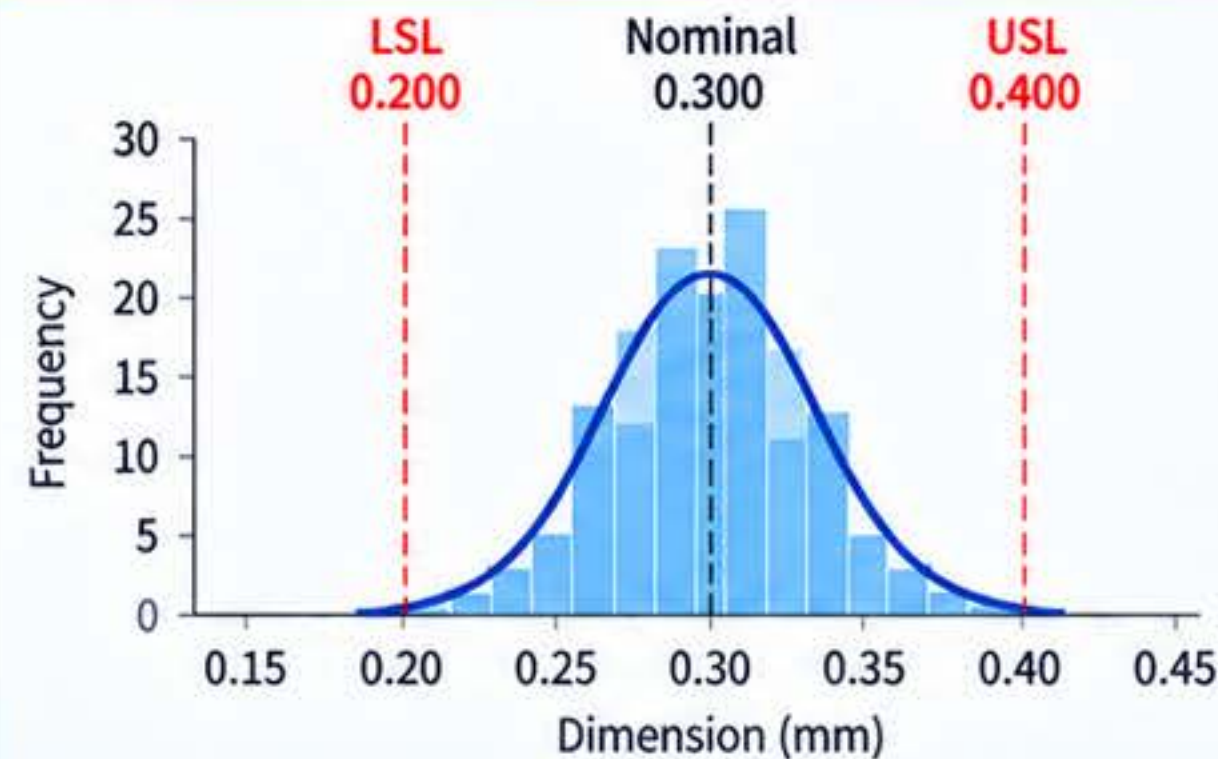


- Full dimensional check
- Appearance inspection
- Performance test
- 100% quality assured before packaging

04 Process Capability (Cp / Cpk)



05 Dimensional Distribution



06 Performance Validation



- High temperature resistance
- Wear resistance
- Stable performance
- Meet or exceed industry standards





Send Us Your OE List

Get the Right Piston Rings for Your Business.



OE NUMBER



ENGINE MODEL



VEHICLE MODEL



YEAR



RING SIZE (if available)



REQUIRED QUANTITY

*Your OE No
Our Solution*

**CONTACT US TODAY
FOR QUOTATION**

WHY CHOOSE TEMCO

Your Reliable Partner for Piston Rings



OE-Reference Fitment

Based on OE Specifications
and Applications

Multiple Surface Options

Chrome Moly Nitriding
Phosphate Oxidation

Quality Control

Automated Processes
and Accurate Inspection

Application Support

OE Number / Engine /
Vehicle Based Matching

Flexible Sourcing

Customized Solutions
Based on Your Demand

One-Stop Partner

Piston Ring + Other Engine Parts
Complete Auto Parts program

TOTAL CUSTOMER SATISFACTION



Reliable Partner



Durable Products



Prompt Delivery

WWW.0086PARTS.COM





YOUR TRUSTED AUTO PARTS PARTNER

Contact Us To Know More



Website



*WhatsApp
Me*



*Wechat
Me*

WWW.0086PARTS.COM