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## Power Stop 16-1313

# Power Stop 16-1313 Z16 Evolution Rear Ceramic Brake Pads User Manual

Model: 16-1313 | Brand: Power Stop

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## 1. PRODUCT OVERVIEW

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The Power Stop Z16 Evolution Rear Ceramic Brake Pads are engineered for optimal braking performance and durability. These pads feature a true ceramic formula designed for noise-free braking, reduced dust, and extended rotor life. They are thermal scorched for a fast break-in period and include dual rubber-backed shims for superior noise reduction.



Image 1.1: Power Stop Z16 Evolution Rear Ceramic Brake Pads, showing packaging and the pads themselves.

## 2. KEY FEATURES

- **Low Dust Formula:** Ceramic brake pads designed to minimize dust accumulation on wheels.
- **Thermal Scorched Surfaces:** Ensures a fast and efficient break-in period.
- **Noise-Free Braking:** Chamfered and slotted design, along with dual rubber-backed shims, reduces noise.
- **Enhanced Stopping Power:** Provides 20 percent more stopping power compared to standard pads.
- **Rotor-Friendly:** True ceramic formula helps prevent premature rotor wear.
- **OEM Specifications:** Manufactured under TS16949 standards, including chamfers and slots, for a vehicle-specific fit.



Image 2.1: A vehicle wheel showcasing the low-dust braking performance, keeping wheels cleaner.



Image 2.2: Illustration of the multi-layer shim design for noise reduction.

### 3. COMPATIBILITY

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These rear ceramic brake pads are designed for a vehicle-specific fit. Please verify compatibility with your vehicle's make, model, and year before installation. This product is compatible with various models, including but not limited to:

- **Hyundai:** Accent (2012-2022), Elantra (2010-2020), Elantra Coupe (2013-2014), Ioniq (2017-2022), Sonata (2016-2019 with Electric Parking Brake), Veloster (2016), Venue (2020-2025)
- **Kia:** Amanti (2007-2009), Niro (2017-2024), Optima (2013-2019 with Electric Parking Brake), Rio (2012-2018, 2022-2023), Rondo (2014-2017), Soul (2010-2013, 2017-2025), Soul EV (2017-2019)

Always consult your vehicle's specific fitment guide to ensure proper application.

### 4. WHAT'S IN THE BOX

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- 1 Set of Ceramic Brake Pads (for rear axle)



Image 4.1: Front view of the Power Stop Z16 Evolution Ceramic Brake Pads.

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Image 4.2: Back view of the Power Stop Z16 Evolution Ceramic Brake Pads, showing the backing plate.

## 5. SETUP AND INSTALLATION

**Important:** Brake system installation requires specialized knowledge and tools. If you are not experienced with brake system maintenance, it is highly recommended to seek assistance from a qualified mechanic. Refer to your vehicle's specific service manual for detailed installation procedures.

### General Installation Guidelines:

1. **Safety First:** Ensure the vehicle is securely lifted and supported on jack stands. Disconnect the battery if necessary.
2. **Remove Old Components:** Carefully remove the wheel, brake caliper, and old brake pads. Inspect the brake rotor for wear, scoring, or damage. Replace if necessary.
3. **Clean Components:** Thoroughly clean the caliper bracket, caliper pistons, and all contact points where the brake pads will sit. Remove any rust or debris.
4. **Lubrication:** Apply a thin layer of high-temperature brake lubricant to all moving and sliding components. This includes caliper bushings, slide pins, and the edges of the pad mounting tabs. Avoid applying lubricant to the friction material of the brake pads.
5. **Install New Pads:** Insert the new Power Stop Z16 Evolution Ceramic Brake Pads into the caliper

bracket, ensuring they fit correctly and move freely.

6. **Reassemble:** Reinstall the brake caliper, ensuring all bolts are torqued to the manufacturer's specifications. Reattach the wheel.
7. **Bleed Brakes (if necessary):** If any brake lines were opened or if the brake pedal feels spongy, bleed the brake system according to your vehicle's service manual.

## 6. OPERATING INSTRUCTIONS: BRAKE-IN PROCEDURE

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Proper break-in (also known as bedding-in) is crucial for optimal performance and longevity of your new brake pads. The thermal scorched surfaces of Power Stop pads facilitate a faster break-in, but the following procedure should still be followed:

1. **Initial Stops:** Perform 5-6 moderate stops from 40 mph (64 km/h) down to 10 mph (16 km/h). Allow approximately 30 seconds between stops for the brakes to cool slightly.
2. **Harder Stops:** Perform 2-3 harder stops from 50 mph (80 km/h) down to 10 mph (16 km/h).
3. **Cool Down:** Drive for several miles without heavy braking to allow the pads and rotors to cool down completely. Avoid coming to a complete stop with the brakes applied during this cool-down period, as this can imprint pad material onto the rotor and cause pulsation.

After this procedure, your brake pads should be properly bedded-in and ready for normal use.

## 7. MAINTENANCE

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Power Stop Z16 Evolution Ceramic Brake Pads are designed for low maintenance due to their low-dust formula and rotor-friendly composition. Regular maintenance should include:

- **Periodic Inspection:** Inspect brake pads and rotors at least once a year or every 12,000 miles (19,000 km) for wear.
- **Brake Fluid Check:** Ensure brake fluid levels are adequate and the fluid is clean. Replace brake fluid according to your vehicle manufacturer's recommendations.
- **Cleanliness:** Keep wheels and brake components clean to prevent debris buildup.

## 8. TROUBLESHOOTING

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### Common Issues and Solutions:

- **Brake Noise (Squealing/Grinding):**
  - Ensure proper lubrication of caliper slide pins and pad backing plates during installation.
  - Verify that the pads are correctly seated and the caliper is functioning properly.
  - Inspect rotors for uneven wear or damage.
- **Excessive Brake Dust:**
  - While Z16 Evolution pads are low-dust, some dust is normal. If excessive, ensure proper break-in procedure was followed.
- **Reduced Braking Performance:**
  - Ensure the break-in procedure was completed correctly.
  - Check for air in the brake lines (bleed if necessary).
  - Inspect for worn or damaged brake components (rotors, calipers).

If issues persist, consult a qualified automotive technician.

## 9. SPECIFICATIONS

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Attribute	Value
Brand	Power Stop
Model Number	16-1313
Material	Ceramic
Auto Part Position	Rear
Vehicle Service Type	SUV, Car
Specification Met	OEM
Item Weight	1.81 pounds
Product Dimensions	6.6 x 4.6 x 2 inches

## 10. WARRANTY AND SUPPORT

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For detailed warranty information and customer support, please refer to the official Power Stop website or contact their customer service directly. Keep your purchase receipt for any warranty claims.