



CENUSIL® R

CONSTANT QUALITY  
FOR INFINITE PRODUCTIVITY



CENUSIL® R

THE GENERAL-PURPOSE GRADES

# CLOSER TO OUR CUSTOMERS

Do you still have questions? We are always at your disposal, backed up with a global sales network and production facilities in the key industrial centers of Europe, North America and Japan. Don't hesitate to contact us through your regional sales office

## **Australia**

### **Wacker Chemicals Australia Pty. Ltd.**

1/35 Dunlop Road  
Mulgrave Vic 3170  
Australia  
Tel. +61 3 9541-8900  
Fax +61 3 9541-8989  
info.australia@wacker.com

## **Brazil**

### **Wacker Química do Brasil Ltda.**

Rua Municipal no. 325  
Jd. Alvorada  
06612-060 Jandira – São Paulo, Brazil  
Tel. +55 11 4789-8300  
Fax +55 11 4789-8356  
info.brazil@wacker.com

## **China**

### **Wacker Chemicals (China) Company Ltd.**

31 F., Bank of China Tower  
200 Yin Cheng Road Central, Pudong  
Shanghai 200120, China  
Tel. +86 21 6100-3400  
Fax +86 21 6100-3500  
info.china@wacker.com

## **India**

### **Wacker Metroark Chemicals Pvt. Ltd.**

Wacker House, CTS No. 521,  
Village Pahadi,  
Sonawala Cross Road,  
Off I.B. Patel Road,  
Opp. Mistry Industrial Estate,  
Mumbai 400 063, India  
Tel. +91 (22) 42365-500  
Fax +91 22 42365-570  
info.india@wacker.com

## **Indonesia**

### **Representative Office**

Graha Indramas 2nd Floor  
Jl. AIP II K.S. Tubun Raya No. 77  
Jakarta 11410, Indonesia  
Tel. +62 21 5367-1278  
Fax +62 21 5367-1279  
info.indonesia@wacker.com

## **Japan**

### **Wacker Asahikasei Silicone Co., Ltd.**

2-9 Kanda Nishikicho  
Chiyoda-ku, Tokyo 101-0054,  
Japan  
Tel. +81 3 5283-8850  
Fax +81 3 3291-2282  
info.aws@wacker.com  
www.aws-silicone.com

## **Singapore**

### **Wacker Chemicals (South Asia) Pte. Ltd.**

61 Science Park Road, # 06-09/12  
The Galen  
Singapore Science Park II  
Singapore 117525, Singapore  
Tel. +65 6542-6638  
Fax +65 6542-6632  
info.singapore@wacker.com

## **South Korea**

### **Wacker Chemicals Korea Inc.**

14 Fl., Haesung-2-Bldg  
942-10 Daechi-dong  
Gangnam-Gu, Seoul 135-725  
South Korea  
Tel. +82 2 6710-1200  
Fax +82 2 6710-1203  
info.korea@wacker.com

## **Thailand**

### **Wacker Chemicals (South Asia) Pte. Ltd**

Thailand Representative Office  
Level 23, Athenee Tower  
63 Wireless Road  
Pathumwan, Lumpini  
Bangkok 10330, Thailand  
Tel. +66 2 126-8041  
Fax +66 2 126-8187  
info.thailand@wacker.com

## **United Arab Emirates**

### **Wacker Chemicals Middle East**

Dubai Silicon Oasis  
P.O. Box 341071  
Dubai, United Arab Emirates  
Tel. +971 4 709-9999  
Fax +971 4 709-9911  
info.dubai@wacker.com

## **USA**

### **Wacker Chemical Corporation**

3301 Sutton Road  
Adrian, MI 49221-9397, United States  
Tel. +1 888 922-5374  
Fax +1 517 264-8246  
info.usa@wacker.com

## **Vietnam**

### **Wacker Chemicals (South Asia) Pte. Ltd.**

Vietnam Representative Office  
Level 1, Somerset Chancellor Court  
21-23 Nguyen Thi Minh Khai Street,  
District 1  
Ho Chi Minh City, Vietnam  
Tel. +84 8 352 025 77  
Fax +84 8 382567-21  
info.vietnam@wacker.com

# EXPERTISE AND SERVICE NETWORK ON FIVE CONTINENTS



WACKER is one of the world's leading and most research-intensive chemical companies. In 2010, its sales totaled €4.75 billion. Products range from silicones, binders and polymeric additives for diverse industrial sectors to bioengineered pharmaceutical actives and hyper-pure silicon for semiconductor and solar applications. As a technology leader focusing on sustainability, WACKER promotes products and ideas that offer high value-added potential to ensure that current and future generations enjoy a better quality of life based on energy efficiency and protection of the climate and environment.

Spanning the globe via five business divisions, 26 production sites and over 100 subsidiaries and sales offices, we have established a presence in all key economic regions and growth markets. With a workforce some 16,300 strong, WACKER sees itself as a reliable innovation partner that develops trailblazing solutions for, and in collaboration with, its customers. WACKER also helps them boost their own success. Our technical centers employ local specialists, who assist customers worldwide in the development of products tailored to regional demands, supporting them during every stage of their complex production pro-

cesses, if required. WACKER e-solutions are online services provided via our customer portal and as integrated process solutions. Our customers and business partners thus benefit from comprehensive information and reliable service to enable projects and orders to be handled fast, reliably and highly efficiently.

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## CENUSIL®: Product data

Property	Test method	Unit	CENUSIL® R 140 – 170			
			40	50	60	70
Hardness Shore A	DIN 53 505					
Appearance			Translucent	Translucent	Translucent	Translucent
Specific gravity	DIN EN ISO 1183- 1 A	[g/cm <sup>3</sup> ]	1.11	1.15	1.17	1.19
Tensile strength	DIN 53 504 S 1	[N/mm <sup>2</sup> ]	7	8	8	9
Elongation at break	DIN 53 504 S 1	[%]	350	300	300	290
Tear resistance	ASTM D 624 B	[N/mm]	11	13	17	17
Rebound resilience	DIN 53 512	[%]	75	70	60	55
Compression set	DIN ISO 815-B (22 h / 175 °C)	[%]	10	10	10	10

## Cure conditions

Curing agent		[%]	Cure	Post-cure
C6	45 % paste of 2,5-bis-(t-butylperoxy)-2,5-dimethyl-hexane in silicone rubber	0.5	15 min / 165 °C	4 h / 200 °C

Crosslinker C6 (2,5-bis-(t-butylperoxy)-2,5-dimethyl hexane in silicone rubber) as a 45 % paste. Curing agent C6 yields similar values to those obtained with C1 (dicumyl peroxide).

These figures are intended as a guide and should not be used in preparing specifications.

**Specialty industrial applications require specialty materials. And for products like keypads, which are molded to high quality standards, our CENUSIL® silicone rubber grades are the name of the game. After all, quality materials are essential for quality products.**

### Products and Properties

CENUSIL® R 140, R 150, R 160 and R 170 are general-purpose silicone rubber grades that offer numerous functional advantages. Their physical and chemical properties ensure superior rebound resiliency and a minimal compression set. As opposed to conventional general-purpose grades, CENUSIL® R products also show negligible creep hardening. Moreover, they are easy to color and do not yellow after curing.

All our CENUSIL® silicone rubber grades are extremely reliable, high performance products that make it easy to achieve consistent production quality and enable infinite productivity. They are the result of years of experience and R&D, mature technology and the high standards that are synonymous with WACKER SILICONES.

### Applications and Processes

CENUSIL® R products are especially suited for a great variety of applications. They are the ideal choice for molding purposes, such as contact mats and keypads, as well as for extrusion and molded seals, gaskets and O-rings. The possibilities are truly endless.

### Expertise and Quality

WACKER SILICONES is one of the world's leading silicones producers, offering comprehensive solutions for products, services and strategies in the silicones field. For sixty years, in close collaboration with our customers, we have been researching, developing and providing innovative, high-quality product solutions to meet special challenges. With our long track record in silicone chemistry, state-of-the-art production lines, strict quality control and comprehensive service and support, you can absolutely depend on our silicone rubber grades, even during long-term continuous service under variable conditions.

**WACKER**

**Wacker Chemie AG**  
Hanns-Seidel-Platz 4  
81737 München, Germany  
Infoline: +49 89 6279-1741

[info.silicones@wacker.com](mailto:info.silicones@wacker.com)  
[www.wacker.com/silicones](http://www.wacker.com/silicones)

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