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ZIRCONIA

All Zirconia You Need



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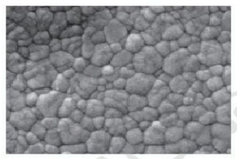
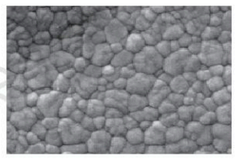
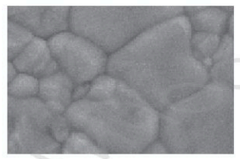
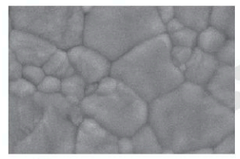
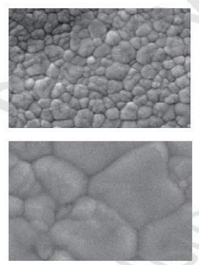
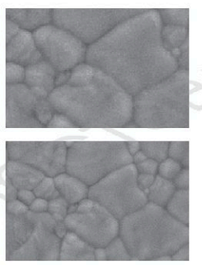
All Zirconia You Need

	3Y-TZP-A	3Y-TZP	4Y-PSZ	5Y-PSZ	3Y-TZP-4Y-PSZ	4Y-PSZ-5Y-PSZ
WHITE	 HT White	 ST White	 TT -ONE	 TT White		
PRE-SHADED		 ST Pre-shaded	 TT-ONE Pre-shaded			
MULTILAYER		 ST Multilayer	 TT-ONE Multilayer	 TT Multilayer	 Functional Explore	 Esthetic Explore

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Zirconia Type	HT	ST	TT-ONE	TT	explore FUNCTIONAL	explore ESTHETIC
Translucency	39%	43%	47%	49%	43%-46.6%	47%-48.8%
Strength	1200MPa	1200MPa	1000MPa	600MPa	1027MPa-1300MPa	727MPa-1000MPa
Restoration Type	Coping	Coping Full Contour Crown	Full Contour Crown	Full Contour Crown (Aesthetic)	Full Contour Crown	Full Contour Crown (Aesthetic)
Sintering Temperature	1530°C	1530°C	1480°C	1450°C	1480°C	1480°C
Microstructure						

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>> Specification

Applied For	Specification(mm)	Package	HT White	ST White	ST Pre-shaded	ST Multilayer	TT White	TT Multilayer	TT-ONE Pre-shaded	TT-ONE Multilayer	Functional Explore	Esthetic Explore
 Open CAD/CAM System	D98x10(stepless)	1pc/box	√	√	√		√					
	D98x12(step&stepless)	1pc/box	√	√	√	√	√	√	√	√	√	√
	D98x14(step&stepless)	1pc/box	√	√	√	√	√	√	√	√	√	√
	D98x16(step&stepless)	1pc/box	√	√	√	√	√	√	√	√	√	√
	D98x18(step&stepless)	1pc/box	√	√	√	√	√	√	√	√	√	√
	D98x20(step&stepless)	1pc/box	√	√	√	√	√	√	√	√	√	√
	D98x22(step&stepless)	1pc/box	√	√	√		√					
	D98x25(step&stepless)	1pc/box	√	√	√		√					
 Cerec in lab (Sirona)System	20x14x15	12pcs/box	√	√	√		√					
	20x19x15	10pcs/box	√	√	√	√	√		√	√	√	√
	40x14x15	8pcs/box	√	√	√		√					
	40x19x15	6pcs/box	√	√	√	√	√		√	√	√	√
	55x19x15	5pcs/box	√	√	√		√					
	65x25x22	4pcs/box	√	√	√		√					
	65x40x22	2pcs/box	√	√	√		√					
	85x40x22	2pcs/box	√	√	√		√					
 Zirkonzahn CAD/CAM System	D95x10	1pc/box	√	√	√		√					
	D95x12	1pc/box	√	√	√		√					
	D95x14	1pc/box	√	√	√	√	√		√	√	√	√
	D95x16	1pc/box	√	√	√	√	√		√	√	√	√
	D95x18	1pc/box	√	√	√	√	√		√	√	√	√
	D95x20	1pc/box	√	√	√		√					
	D95x22	1pc/box	√	√	√		√					
	D95x25	1pc/box	√	√	√		√					
 Amann Girrbach CAD/CAM System	89x71x10	1pc/box	√	√	√		√					
	89x71x12	1pc/box	√	√	√		√					
	89x71x14	1pc/box	√	√	√	√	√		√	√	√	√
	89x71x16	1pc/box	√	√	√	√	√		√	√	√	√
	89x71x18	1pc/box	√	√	√	√	√		√	√	√	√
	89x71x20	1pc/box	√	√	√		√					
	89x71x22	1pc/box	√	√	√		√					
	89x71x25	1pc/box	√	√	√		√					

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>> Indication Guide

	Veneers	Inlays/onlays	Full contour crown anterior tooth	Bridge anterior tooth (3 units)	Full contour crown posterior tooth	Bridge posterior tooth (3 units)	Full contour bridge (4 units)	Full contour bridge (⩾4 units)	Reduced crown anterior tooth	Reduced bridge anterior tooth (3 units)	Reduced crown posterior tooth	Reduced bridge posterior tooth (3 units)	Reduced bridge posterior tooth (4units)	Reduced bridge posterior tooth (⩾4units)
HT White	●	●	●	●	●	●	●	●	★	★	★	★	★	★
ST White	●	●	●	●	✓	✓	✓	★	★	★	★	★	★	★
ST Pre-shaded	●	●	●	●	✓	✓	✓	★	★	★	★	★	★	★
ST-Multilayer	●	●	●	●	✓	✓	✓	★	★	★	★	★	★	★
TT-ONE	●	●	✓	✓	★	★	★	✓	✓	✓	✓	✓	✓	●
TT-ONE Preshaded	●	●	✓	✓	★	★	★	✓	✓	✓	✓	✓	✓	●
TT-One Multilayer	●	●	✓	✓	★	★	★	✓	✓	✓	✓	✓	✓	●
TT White	●	●	★	★	★	★	×	×	✓	✓	✓	✓	×	×
TT Multilayer	●	●	★	★	★	★	×	×	✓	✓	✓	✓	×	×
Functional Explore	●	●	✓	✓	★	★	★	✓	✓	✓	✓	✓	✓	✓
Esthetic Explore	●	●	★	★	★	★	●	×	✓	✓	✓	✓	●	×

★ optimum ✓ available ● available but not recommended × unavailable

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HT White



HT White

- Suitable for coping and framework
- Superior strength



• Physical Characteristics

Density after sintering	6.07±0.01g/cm³
CTE(25-500°C)	(10.5±1.0)x10⁻⁶K⁻¹
Accelerated aging surface monoclinic phase content	<10%
Chemical solubility after sintering	<100μg/cm²
Radioactivity	<0.1Bq/g
Sintering temperature	1400-1580°C recommend 1530°C

• Chemical Composition

$ZrO_2 + HfO_2 + Y_2O_3$	>99%
Y_2O_3	4.5%-6%
Al_2O_3	<0.5%
Others oxides	<0.5%

TRANSLUCENCY
39%

STRENGTH
1200MPa

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ST Series



ST White

- Suitable for full contour crown and bridge
- Excellent machinability



Physical Characteristics

Density after sintering	6.08±0.01g/cm³
CTE(25-500°C)	(10.5±1.0)x10⁻⁶K⁻¹
Accelerated aging surface monoclinic phase content	<15%
Chemical solubility after sintering	<100μg/cm²
Radioactivity	<0.1Bq/g
Sintering temperature	1400-1580°C recommend 1530°C

Chemical Composition

$ZrO_2 + HfO_2 + Y_2O_3$	>99%
Y_2O_3	4.5%-6%
Al_2O_3	<0.5%
Others oxides	<0.5%

TRANSLUCENCY
43%

STRENGTH
1200MPa

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ST Pre-shaded



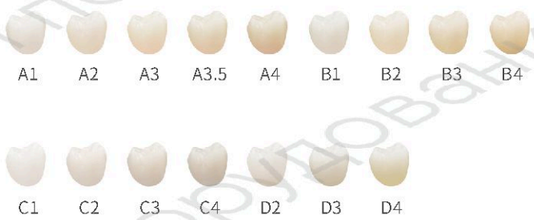
- Suitable for full contour crown and bridge
- Available for VITA 16 shades

- **Physical Characteristics**

Density after sintering	6.08±0.01g/cm³
CTE(25-500°C)	(10.5±1.0)x10⁻⁶K⁻¹
Accelerated aging surface monoclinic phase content	<15%
Chemical solubility after sintering	<100μg/cm²
Radioactivity	<0.1Bq/g
Sintering temperature	1400-1580°C recommend 1530°C

- **Chemical Composition**

$ZrO_2+HfO_2+Y_2O_3$	>97%
Y_2O_3	4.4%-5.5%
Al_2O_3	<0.5%
Fe_2O_3	<0.3%
Er_2O_3	<1.0%
Others oxides	<1.2%





ST Multilayer



- Suitable for full contour crown and bridge
- Multilayer gradient with 7 popular shades

- **Physical Characteristics**

Density after sintering	6.08±0.01g/cm³
CTE(25-500°C)	(10.5±1.0)x10⁻⁶K⁻¹
Accelerated aging surface monoclinic phase content	<15%
Chemical solubility after sintering	<100μg/cm²
Radioactivity	<0.1Bq/g
Sintering temperature	1400-1580°C recommend 1530°C

- **Chemical Composition**

$ZrO_2+HfO_2+Y_2O_3$	>97.7%
Y_2O_3	4.4%-5.5%
Al_2O_3	<0.5%
Fe_2O_3	<0.3%
Er_2O_3	<1.0%
Others oxides	<1.2%





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TT ONE Series

TT-ONE

- Suitable for all indications
- Natural esthetics



Physical Characteristics

Density after sintering	⩾6.0g/cm³
CTE(25-500°C)	(10.5±1.0)x10⁻⁶K⁻¹
Accelerated aging surface monoclinic phase content	<5%
Chemical solubility after sintering	<100μg/cm²
Radioactivity	<0.1Bq/g
Sintering temperature	1430-1550°C recommend 1480°C

Chemical Composition

$ZrO_2+HfO_2+Y_2O_3$	>96.5%
Y_2O_3	5.8%-9.7%
Al_2O_3	<0.5%
Fe_2O_3	<0.5%
Er_2O_3	<2.0%
Others oxides	<0.5%

TRANSLUCENCY
47%

STRENGTH
1000MPa

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TT-ONE Pre-shaded



- Suitable for all indications
- Available for 7 popular shades+ 2 bleach shades

- Physical Characteristics

Density after sintering	⩾6.0g/cm³
CTE(25-500°C)	(10.5±1.0)x10⁻⁶K⁻¹
Accelerated aging surface monoclinic phase content	<5%
Chemical solubility after sintering	<100μg/cm²
Radioactivity	<0.1Bq/g
Sintering temperature	1430-1550°C recommend 1480°C

- Chemical Composition

$ZrO_2+HfO_2+Y_2O_3$	>96.5%
Y_2O_3	5.8%-9.7%
Al_2O_3	<0.5%
Fe_2O_3	<0.5%
Er_2O_3	<2.0%
Others oxides	<0.5%





TT-ONE Multilayer



- Suitable for all indications
- Available for 7 popular shades

- Physical Characteristics

Density after sintering	⩾6.0g/cm³
CTE(25-500°C)	(10.5±1.0)x10⁻⁶K⁻¹
Accelerated aging surface monoclinic phase content	<5%
Chemical solubility after sintering	<100μg/cm²
Radioactivity	<0.1Bq/g
Sintering temperature	1430-1550°C recommend 1480°C

- Chemical Composition

$ZrO_2+HfO_2+Y_2O_3$	>96.5%
Y_2O_3	5.8%-9.7%
Al_2O_3	<0.5%
Fe_2O_3	<0.5%
Er_2O_3	<2.0%
Others oxides	<0.5%





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TT Series



TT White

- Suitable for anterior restoration
- Superior translucency



Physical Characteristics

Density after sintering	⩾6.0g/cm³
CTE(25-500°C)	(10.5±1.0)x10⁻⁶K⁻¹
Accelerated aging surface monoclinic phase content	<5%
Chemical solubility after sintering	<100μg/cm²
Radioactivity	<0.1Bq/g
Sintering temperature	1430-1550°C recommend 1450°C

Chemical Composition

$ZrO_2+HfO_2+Y_2O_3$	>96.5%
Y_2O_3	5.8%-9.7%
Al_2O_3	<0.5%
Fe_2O_3	<0.5%
Er_2O_3	<2.0%
Others oxides	<0.5%

TRANSLUCENCY
49%

STRENGTH
600MPa

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TT Multilayer



- Suitable for anterior restoration
- Multilayer gradient with 7 popular shades

Physical Characteristics

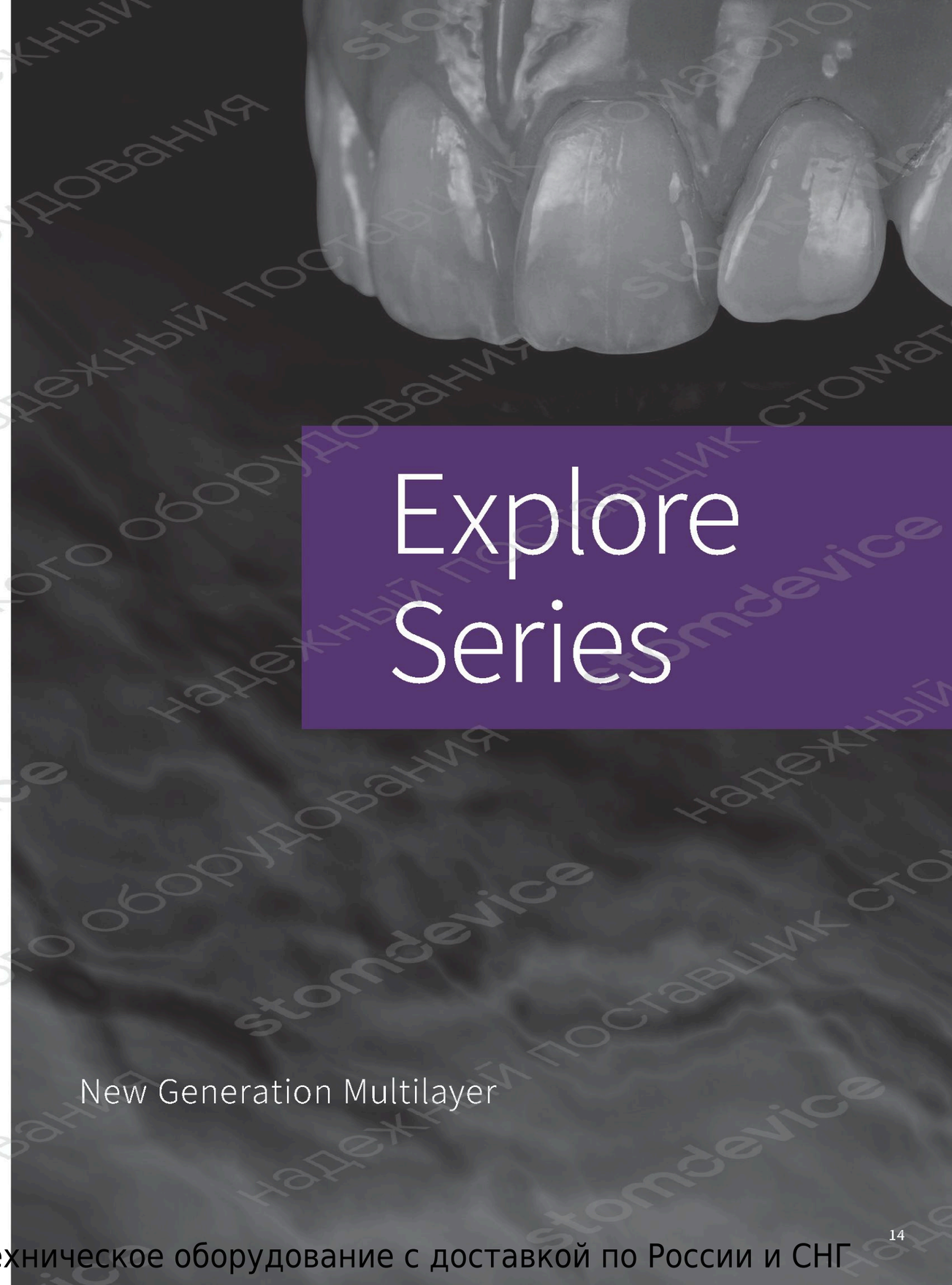
Density after sintering	≥6.0g/cm³
CTE(25-500°C)	(10.5±1.0)x10⁻⁶K⁻¹
Accelerated aging surface monoclinic phase content	<5%
Chemical solubility after sintering	<100μg/cm²
Radioactivity	<0.1Bq/g
Sintering temperature	1430-1550°C recommend 1450°C

Chemical Composition

$ZrO_2+HfO_2+Y_2O_3$	>96.5%
Y_2O_3	5.8%-9.7%
Al_2O_3	<0.5%
Fe_2O_3	<0.5%
Er_2O_3	<2.0%
Others oxides	<0.5%







Explore Series

New Generation Multilayer

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FUNCTIONAL EXPLORE



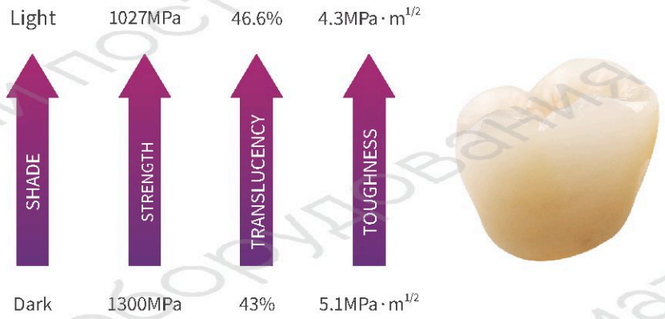
- Suitable for all indications
- Available for 7 popular shades

- **Physical Characteristics**

Density after sintering	⩾6.0g/cm³
CTE(25-500°C)	(10.5±1.0)x10⁻⁶K⁻¹
Accelerated aging surface monoclinic phase content	<5%
Chemical solubility after sintering	<100μg/cm²
Radioactivity	<0.1Bq/g
Sintering temperature	1430-1550°C recommend 1480°C

- **Chemical Composition**

$ZrO_2+HfO_2+Y_2O_3$	>96.5%
Y_2O_3	5.8%-9.7%
Al_2O_3	<0.5%
Fe_2O_3	<0.5%
Er_2O_3	<2.0%
Others oxides	<0.5%





ESTHETIC EXPLORE



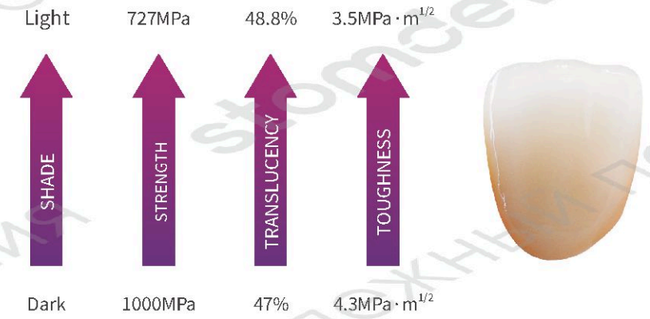
- Suitable for all indications
- Available for 7 popular shades + 2 bleach shades

- **Physical Characteristics**

Density after sintering	⩾6.0g/cm³
CTE(25-500°C)	(10.5±1.0)x10⁻⁶K⁻¹
Accelerated aging surface monoclinic phase content	<5%
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Radioactivity	<0.1Bq/g
Sintering temperature	1430-1550°C recommend 1480°C

- **Chemical Composition**

$ZrO_2+HfO_2+Y_2O_3$	>96.5%
Y_2O_3	5.8%-9.7%
Al_2O_3	<0.5%
Fe_2O_3	<0.5%
Er_2O_3	<2.0%
Others oxides	<0.5%





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Jiang Shan

Famous Dental Aesthetic Restoration Expert in China

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