



DIAMOND
DENTAL SUPPLY

2020



Product Catalog

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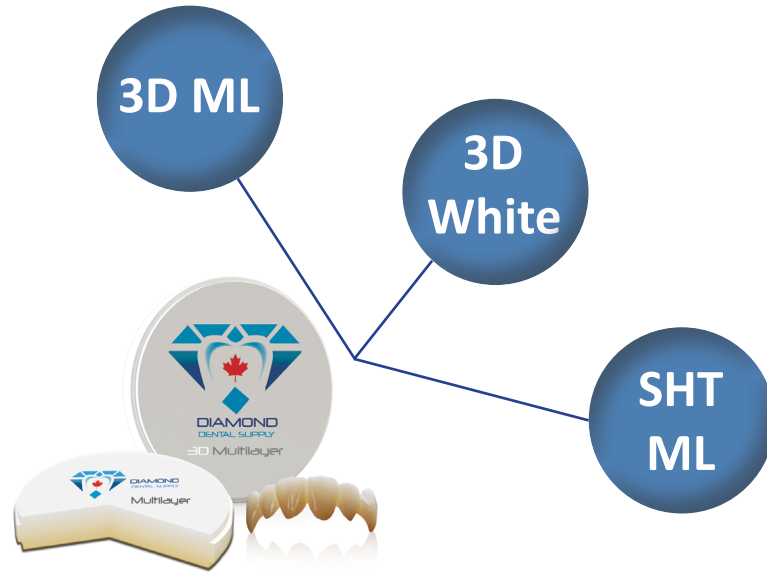


Company Profile

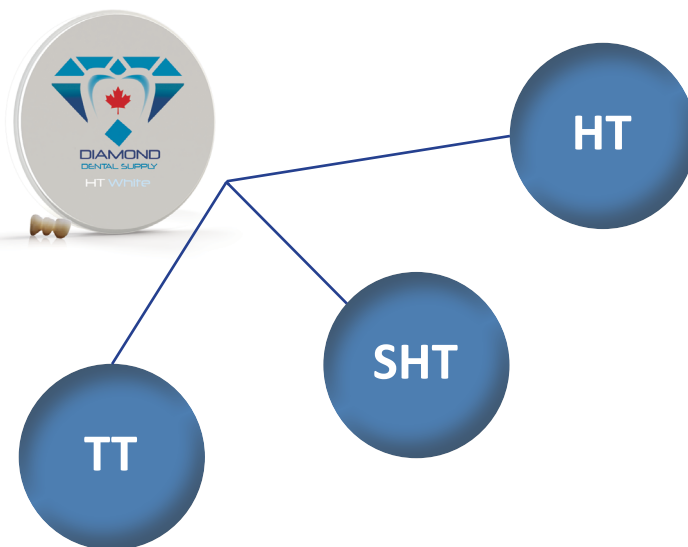
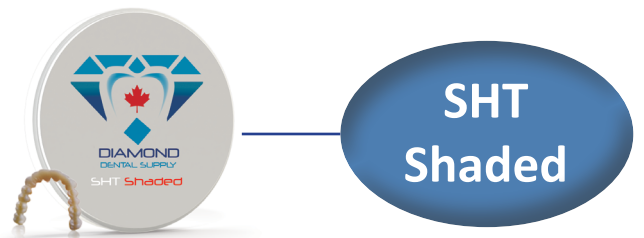
Diamond Dental Supply “DDS” is a dental ceramics company, but really we’re in the business of certainty. We consistently deliver the highest quality ceramics to you.

DDS Company was founded in 2017 and listed as the one of the companies superior in its work. DDS is committed to continuous manufacturing, with an unwavering focus on quality and efficiency.

DDS Zirconia



Categories



DDS 3D Multilayer and 3D White

DDS 3D Multilayer Zirconia Blocks



Regular providing Shaded blocks:



Vickers Hardness (HV)	Strength (Mpa)	Color	Translucency
≥1250	≥750	Incisal	55%
↓	↓	↓	↑
≥1350	≥1100	Cervical	43%

DDS 3D White Zirconia Blocks

Vickers Hardness (HV)	Strength (Mpa)	Translucency
≥1250	≥750	55%
↑	↓	↓
≥1350	≥1100	43%




3D Specification

98*10mm	98*12mm	98*14mm
98*16mm	98*18mm	98*20mm
98*22mm	98*25mm	

DDS SHT Multilayer and SHT Shaded

DDS SHT Multilayer Zirconia Blocks



Vickers Hardness (HV)	Strength (Mpa)	Color	Translucency
≥1300	≥1050	Incisal  Cervical	47%

Regular providing Shaded blocks:



DDS SHT Shaded Zirconia Blocks

Vickers Hardness (HV)	Strength (Mpa)	Color	Translucency
≥1300	≥1050	Vita classical shades	47%



Regular providing pre-shaded blanks:



DDS HT White and SHT White



HT Specification

98*10mm	98*12mm	98*14mm
98*16mm	98*18mm	98*20mm
98*22mm	98*25mm	

DDS HT White Zirconia Blocks

Physical and Chemical Properties	Standards	Test Results
Density (after sintering)	6.05±0.05 g/cm ³	6.04 g/cm ³
Strength (Mpa)	>900	1250
Chemical solubility	100 µg/cm ²	64 µg/cm ²
Vickers hardness (HV)	1200	1298
CTE	(10±0.5)	Complied
Radioactivity	0.1Bq.g-1	Complied
Translucency	-	41% - 43%

DDS SHT White Zirconia Blocks

Physical and Chemical Properties	Standards	Test Results
Density (after sintering)	6.05±0.05 g/cm ³	6.03 g/cm ³
Strength (Mpa)	>900	1050
Chemical solubility	100 µg/cm ²	63 µg/cm ²
Vickers hardness (HV)	1200	1293
CTE	(10±0.5)	Complied
Radioactivity	0.1Bq.g-1	Complied
Translucency	-	47% - 49%



SHT Specification

98*10mm	98*12mm	98*14mm
98*16mm	98*18mm	98*20mm
98*22mm	98*25mm	

DDS TT White and Biological Properties



TT Specification

98*10mm	98*12mm	98*14mm
98*16mm	98*18mm	98*20mm
98*22mm	98*25mm	

DDS TT White Zirconia Blocks

Physical and Chemical Properties	Standards	Test Results
Density (after sintering)	6.05±0.05 g/cm ³	6.01 g/cm ³
Strength (Mpa)	>900	750
Chemical solubility	100 µg/cm ²	61 µg/cm ²
Vickers hardness (HV)	1200	1220
CTE	(10±0.5)	Complied
Radioactivity	0.1Bq.g-1	Complied
Translucency	-	55%

Biological Properties

Items	ISO10993 Standards Requirements	Test Results
Cytotoxicity test	Cytotoxicity ≤ 1	No cytotoxicity
Sensitization test	Sensitization not allowed	No sensitization
Oral mucosa irritation test	Irritation not allowed	No Stimulation
Acute systemic toxicity test	Sensitization not allowed	No acute oral toxicity
Genotoxicity test	Avirulent	AMES test: negative

DDS Inlab and Manual Zirconia



DDS Inlab Zirconia Blocks

Model	Specification	Translucency
20-14-16	20×14×16	HT/SHT/TT/3D
29-19-16	29×19×16	HT/SHT/TT/3D
40-14-16	40×14×16	HT/SHT/TT/3D
40-19-16	40×19×16	HT/SHT/TT/3D
65-25-16	65×25×16	HT/SHT/TT/3D

DDS Manual Zirconia Blocks

Model	Specification	Translucency
43-25-16	43×25×16	HT/SHT/TT/3D
58-29-16	58×29×16	HT/SHT/TT/3D
60-25-16	60×25×16	HT/SHT/TT/3D
65-30-16	65×30×16	HT/SHT/TT/3D
75-36-16	75×36×16	HT/SHT/TT/3D
75-36-22	75×36×22	HT/SHT/TT/3D
87-56-16	87×56×16	HT/SHT/TT/3D
72-42-16	72×42×16	HT/SHT/TT/3D



Indication Reference of DDS Blocks

Indications	Model	3D Multilayer	3D White	SHT Multilayer	SHT White SHT Shaded	HT White	TT White
Aesthetic full contour for anterior		✓	✓	○	○	○	✓
Full contour for posterior		✓	✓	✓	✓	✓	✓
Coping		✓	✓	✓	✓	✓	✓
Coping bridge (3-4 units)		✓	✓	✓	✓	✓	○
Crown bridge (3-4 units)		✓	✓	✓	✓	✓	○
Coping bridge (5-7 units)		○	○	✓	✓	✓	✗
Crown bridge (5-7 units)		✓	✓	✓	✓	✓	✗
Coping bridge full arch		○	○	○	✓	✓	✗
Crown bridge full arch		○	✓	○	✓	✓	✗
Post & core		✓	✓	✓	✓	✓	✓
Inlay/Onlay		✓	✓	✓	✓	✓	✓
Veneer		✓	✓	○	○	○	✓
Abutment		✓	✓	✓	✓	✓	✓
Telescope		✓	✓	✓	✓	✓	✓
Maryland bridge		✓	✓	○	✓	✓	○
Implant Bridge for 3-7 units		✓	✓	✓	✓	✗	✓
Implant Bridge for more than 7 units		○	○	✓	✓	✗	✓

DDS Color Liquid



Diluent Liquid

Incisal Liquid

Color Guide

VITA classical A1-D4

Dentine Shade
0M1 0M2 0M3
A1 A2 A3 A3.5 A4
B1 B2 B3 B4
C1 C2 C3 C4
D2 D3 D4

VITA Toothguide 3D-MASTER

Dentine Shade
0M1 0M2 0M3
1M1 1M2
2L1.5 2L2.5 2M1 2M2 2M3 2R1.5 2R2.5
3L1.5 3L2.5 3M1 3M2 3M3 3R1.5 3R2.5
4L1.5 4L2.5 4M1 4M2 4M3 4R1.5 4R2.5
5M1 5M2 5M3

DDS Special shades : P1 P2 P3 - Gingival shade ,O1 O2 - Fossa Shade ,G1 G2 - Incisal shade

Optimized for All-ceramic Restorations,with a Wide Choice of Shades.

Marvelously performed on zirconia blocks.

Thorough penetration throughout crown to ensure predictable colors.

Highly match the natural colors of teeth,Shorter dyeing duration,Easy operation.

DDS PMMA and WAX



DDS PMMA

Property	Data
Flexural Strength	≥100 Mpa
Solubility	≤7.5 μg/mm ³
Water Absorption	≤40 μg/mm ³

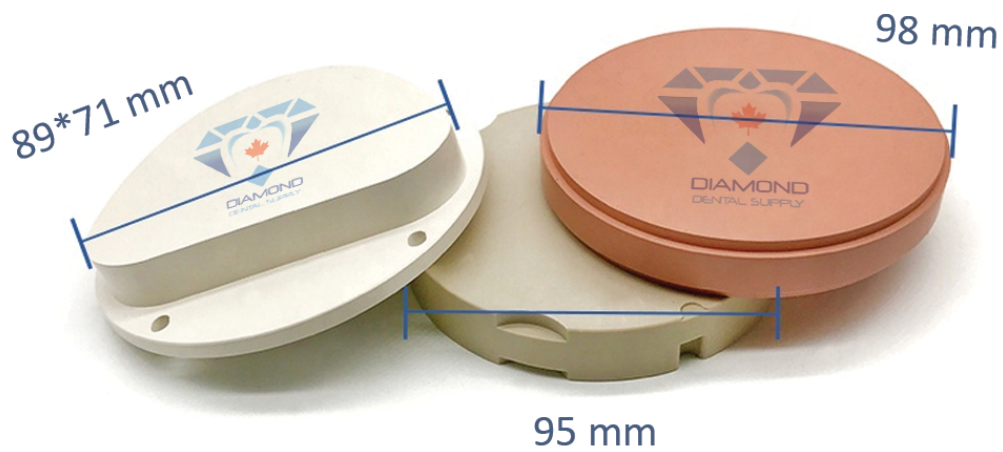
Indications	Temporary crown, partial denture.
Available Thicknesses(mm)	10 ,12 ,14 ,16 ,18 , 20 , 22 , 25.
Available Shapes	Open System, Zirkozahn,Amann Girschbach,Sirona.
Available Colors	Vita classic shades(multilayer and monolithic),bleach,clear,pink

DDS WAX



Physical Properties	
Melting	150 °C
Density	0.92 g/cm ³ (25 °C test)
Shore hardness	50
Linear expansivity	1.15 (70 °C size/25 °C size)
Grey level	≤0.02%
Antistatic	YES
Compatibility	CAD/CAM Milling
Available Thicknesses(mm)	98X12/14/16/20

DDS Peek Disc M5/M6 System 95mm



Advantage

- Density is near to natural teeth.
- High resistance to wear, abrasion.
- Easy to clean.

Compitable System	Size (Units: mm)
98	10/12/14/16/18/20/22/25
95	10/12/14/16/18/20/22/25
AG	12/14/16/18/20/25

DDS Co-Cr Blocks and Powder



DDS Co-Cr Blocks

Description

DDS Co-Cr Block, a non-precious metal, is innovated based on many years' research and experience of our technicians and is going to revolutionize the traditional PFM manufacturing process. It requires less time, sets the technician free from casting and investing, and at the same time improves product stability and processing level of factory eventually.

Physical Properties

0.2% yield strength	500 Mpa	Density	7.9±0.2 g/cm ³
Tensile strength	≥800 Mpa	Corrosion resistance	<200 μg/cm ²
Vickers hardness	270±27	Liquidus temperature	(1410±50)°C
Solidus temperature	(1350±50)°C	(CTE) (25-500)°C	(14.2-14.8) X10 ⁻⁶ K ⁻¹

Composition

Cobalt	Chrome	Molybdenum	Silicium	Manganese	Iron	Carbon	Other
66.0±2.0%	28.0±2.0%	5.0±1.0%	<1.0%	<1.0%	<0.8%	<0.8%	<2.0%



DDS Co-Cr Blocks and Powder

DDS Co-Cr Powder



Physical Properties

Chemical Composition	Co: 60.5% Cr:27% Mo: 5.5% W: 5% Si: 1.5%		
Powder Particle Size	D10: 10 micron D50: 30±10 micron D90: 45micron		
Proof Stress (Rp 0.2)	≥500 Mpa	Metal ceramic bonding properties	>25 Mpa
Elongation	2-10%	Elastic Modulus	≥150 Gpa
Corrosion Resistance	200 µg/cm ²	Density	8.5±0.5 g/cm ³
Vickers Hardness	450±45 HV	CTE	14.5±0.5x10 ⁻⁶ K ⁻¹
Solidus Temp	1380±50°C	Liquidus' Temp	1430±50°C
Genotoxicity	Negative	Cytotoxicity	None
Oral mucosal irritation	None	Delayed hypersensitivity	None
Acute oral systemic toxicity	None	Subchronic systemic toxicity	None

Co-Cr Alloy Powder Composition

<i>Co</i>	<i>Cr</i>	<i>Mo</i>	<i>W</i>	<i>Si</i>	<i>Cu</i>	<i>Mn</i>	<i>Fe</i>	<i>C</i>
60.5	27	5.5	5	1.5	<1.0	<1.0	<1.0	<0.5

DDS Porcelain Powder 16 SHADES CODE

Dentine Powder Ceramic Powder

Porcelain Powder 50g

A1	A2	A3	A3.5	A4	B1	B2	B3	B4	C1	C2	C3	C4	D2	D3	D4
1M1	1M2	2M1	2M2	2M3	2L1.5	2L2.5	2R1.5	2R2.5	3L1.5	3L2.5	3M1	3M2			
3M3	3R1.5	3R2.5	4L1.5	4L2.5	4M1	4M2	4M3	4R1.5	4R2.5	5M1	5M2	5M3			
EN2	T4	EN2: Enamel T4: Transparent													

Wash Opaque Powder 50g OP Powder 50g

A1	A2	A3	A3.5	A4	B1	B2	B3	B4	C1	C2	C3	C4	D2	D3	D4
1M1	1M2	2M1	2M2	2M3	2L1.5	2L2.5	2R1.5	2R2.5	3L1.5	3L2.5	3M1	3M2			
3M3	3R1.5	3R2.5	4L1.5	4L2.5	4M1	4M2	4M3	4R1.5	4R2.5	5M1	5M2	5M3			
OP Liquid 100ml Glaze Powder 50g Glaze Liquid 100ml															

Zirconia Porcelain Powder 50g

A1	A2	A3	A3.5	A4	B1	B2	B3	B4	C1	C2	C3	C4	D2	D3	D4
1M1	1M2	2M1	2M2	2M3	2L1.5	2L2.5	2R1.5	2R2.5	3L1.5	3L2.5	3M1	3M2			
3M3	3R1.5	3R2.5	4L1.5	4L2.5	4M1	4M2	4M3	4R1.5	4R2.5	5M1	5M2	5M3			
EN2	T4	EN2: Enamel T4: Transparent													
Zirconia Glaze Paste 7g															

DDS Milling Burs



DDS Zirconia Burs

Size	T1	T1(long)	T2	T2(long)	T3	T4(endmill)
Cut-edge Diameter(mm)	2	2	1	1	0.6/0.3	1
Cut-edge Length(mm)	6	6	4	4	2	3
Eective Length(mm)	16	22	16	20	8	16
Shank Size(mm)	3/4	3/4	3/4	3/4	3/4	3/4
Whole Length(mm)	50	50	50	50	50	50

DDS Glass Ceramic Burs

Size	T1	T2	T3
Cut-edge Diameter(mm)	2.5	1	0.6/0.3
Eective Length(mm)	16	10	10
Shank Size(mm)	3	3	3
Whole Length(mm)	45	45	45



DDS Milling Burs

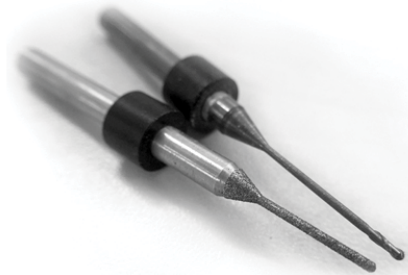


DDS Metal Burs

Size	T1	T2	T3
Cut-edge Diameter(mm)	3	2	1.5
Cut-edge Length(mm)	4.5	3	2.5
Eective Length(mm)	14	12	8
Shank Size(mm)	4	4	4
Whole Length(mm)	50	50	50

DDS PMMA Burs

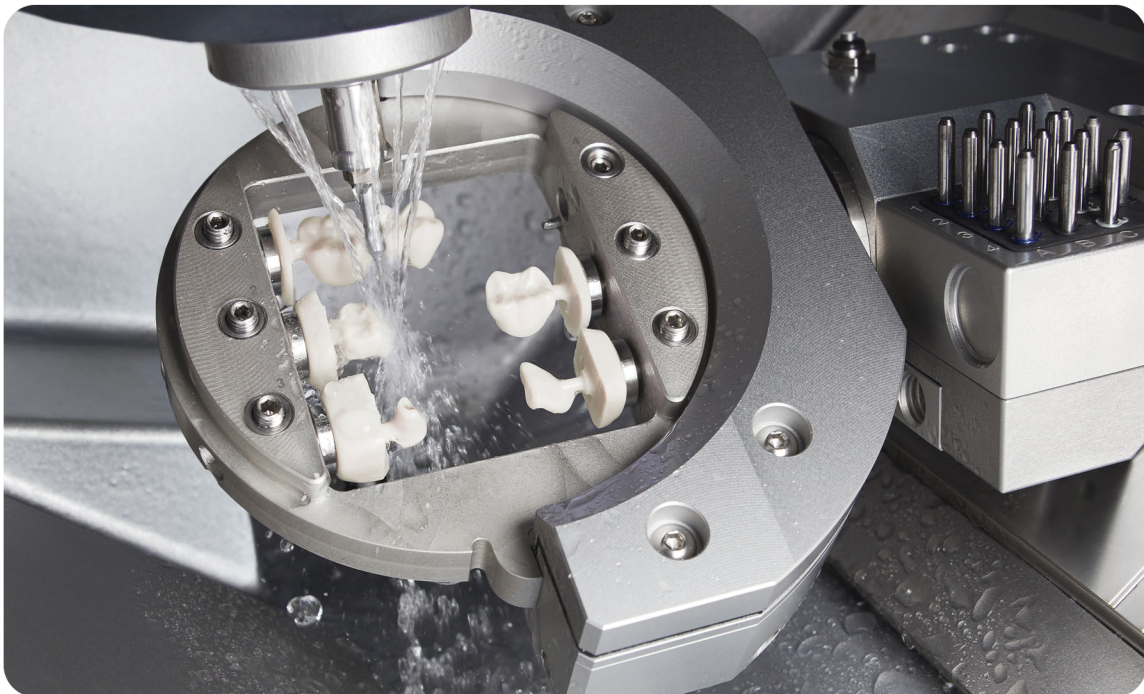
Size	T1	T2	T3	T4(endmill)
Cut-edge Diameter(mm)	2	1	0.6	0.6
Cut-edge Length(mm)	4	4	2	2
Eective Length(mm)	16	16	8	8
Shank Size(mm)	3/4	3/4	3/4	3/4
Whole Length(mm)	50	50	50	50





DIAMOND
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Milling Machines



Coming

Soon



DIAMOND
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Feel free to contact us



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