

DESS

DENTAL SMART SOLUTIONS



AURUMBase® 2022/1

AURUMBase®

There are numerous clinical situations where the long-axis of the implant results in an unfavorable location of the prosthetic screw access hole. One solution might be to sacrifice the retrievability and cement over the access hole or compromise the esthetic results.

Now DESS introduce the AURUMBase® system that will allow for an angular adjustment of up to 25°. The specially designed Torx®-based screw and driver concept will retain the ability to use full recommended torque even at full angulation.

The AURUMBase® is made of titanium grade V ELI and has a gold-anodized surface finishing that will further optimize the appearance especially in the esthetic zone. The shaft surface also features the patented and well proven SelectGrip® for optimal cement retention.

To facilitate prosthetic work using traditional casting procedures AURUMBase® pre-formed castable caps can be used. They are delivered in multi-packs of 5 pieces, in a straight version as well as pre-angled with 10° and 20°. They are designed to optimize the placement and tightening of the AURUMBase® screw with the special driver.

To optimize the possible angulation of the access hole the shaft of the AURUMBase® has been reduced to only 3mm, but with a bonding area of more than 33mm², bigger than other higher but sliced solutions.

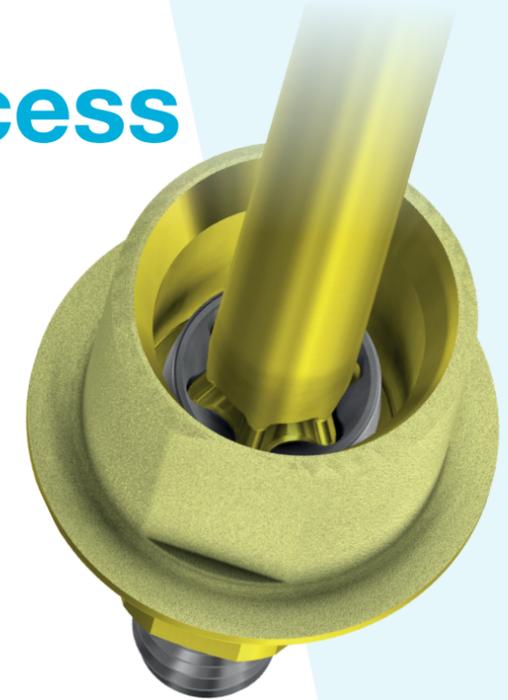
During the development we conducted both de-bonding and static Fatigue tests comparing the results not only to the standard DESS TI-Base but also to competitors' components.

A dynamic fatigue test was also conducted and passed the required 5 million load cycles.

For angulated screw channel access

Made in titanium grade V ELI with an anodized gold hue surface.

Available for most platforms with engaging and non-engaging versions.

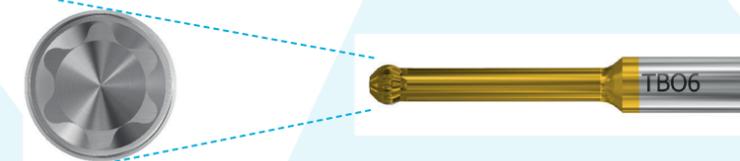


AURUMBase® Castables

Unique, pre-formed castable caps in Straight, 10° and 20° angles for non CAD/CAM procedures.

AURUMBase® Driver and screw system

The AURUMBase® TB06 drivers follow strictly the Torx® ball system design parameters. Torx® has set the global standard in reliability. This will assure optimal fastening torque even at maximum angle of the driver.



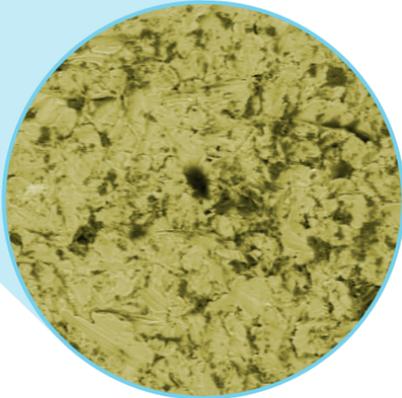
AURUMBase®

Features & benefits

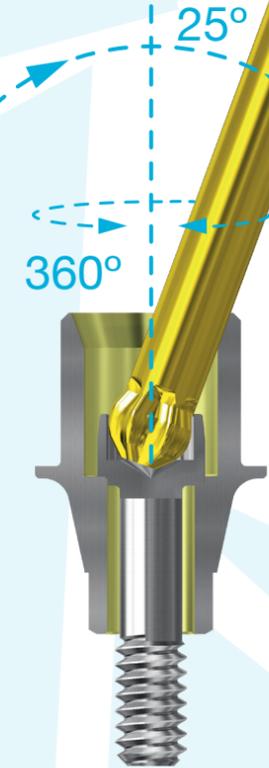
Up to 30% reduction in the emergence hole design within CAD libraries to further improve the flexibility and esthetic outcome.

bevelled edge to optimize the driver angulation

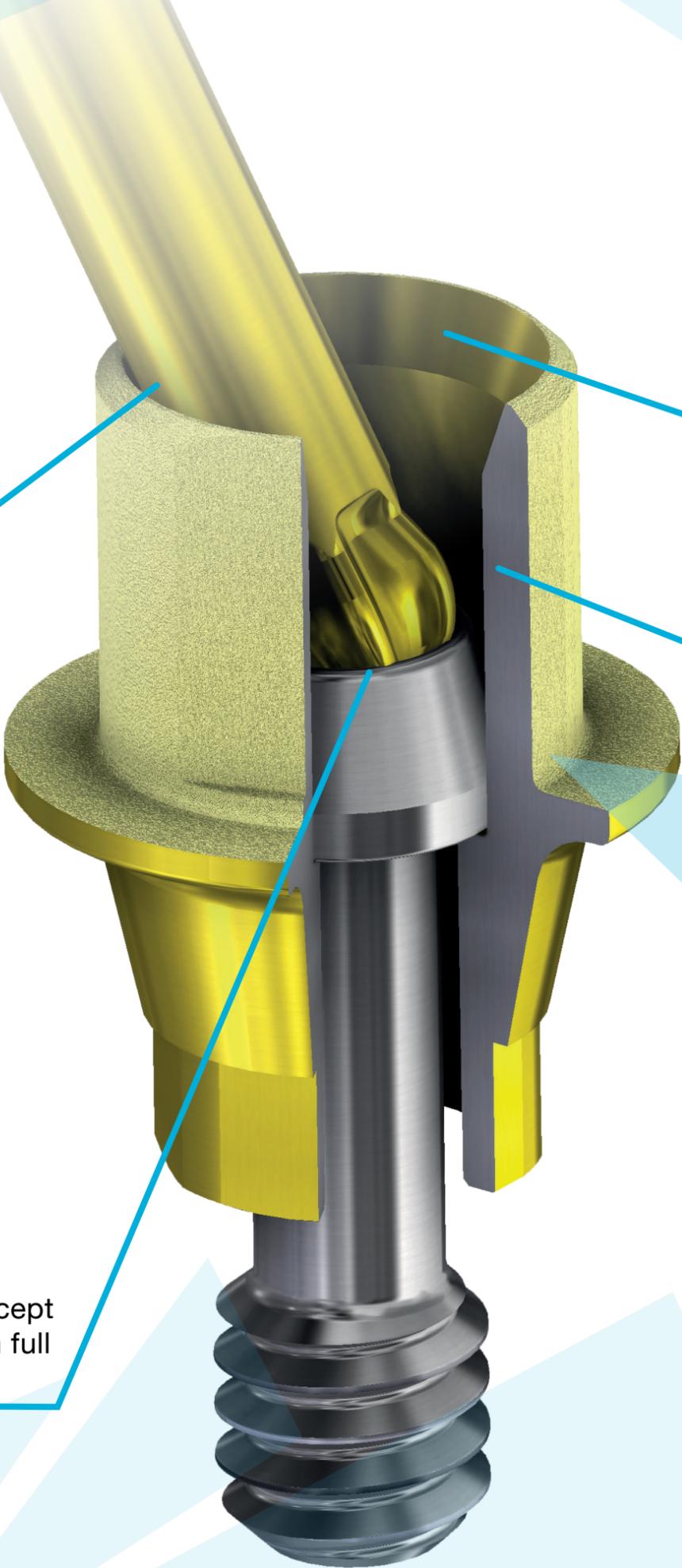
Made of Titanium Grade V ELI with a gold anodize surface finish.



Cement shaft with patented SelectGrip® surface for optimal crown retention



Torx® based screw and driver concept allow for up to 25° angulation with full recommended torque

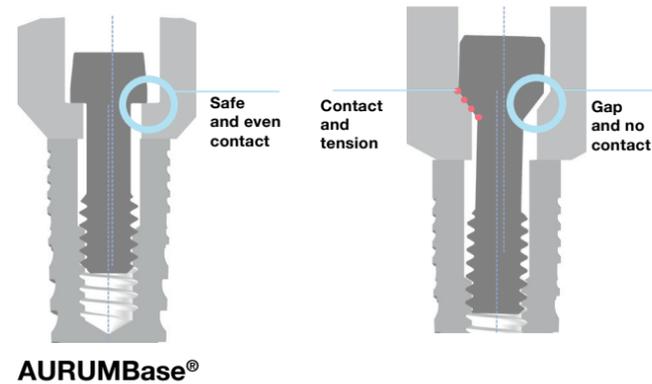


Technical Solutions

Torx® AURUMBase® Screw system

All AURUMBase®

Screws have a flat seat to minimize tension when there is a slight misalignment between screw retained structures and implants. A flat design is more forgiving and transfers the torque to an optimal preload of the screw. A conical screw requires a perfect alignment and centering between the screw and seat.



Technical Solutions

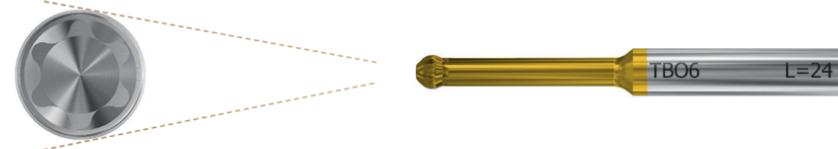
Torx® ball AURUMBase® Driver and screw system

All AURUMBase®

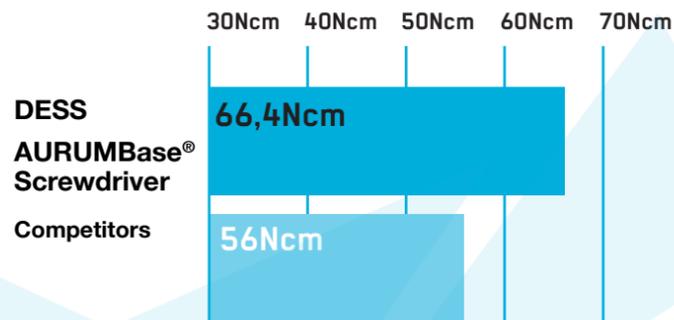
Screws feature the standard ISO 10.664 Torx®06 screw head and can be used in straight operations with any standard Torx®06 driver.

The AURUMBase® TB06 drivers follow strictly the Torx® ball system design parameters. Torx® has set the global standard in reliability. This will assure optimal fastening torque even at maximum angle of the driver.

All AURUMBase® screw and screwdrivers are compatible with other systems on the market accomplishing ISO 10.664.



Average Breaking Torque for Drivers



Technical Solutions

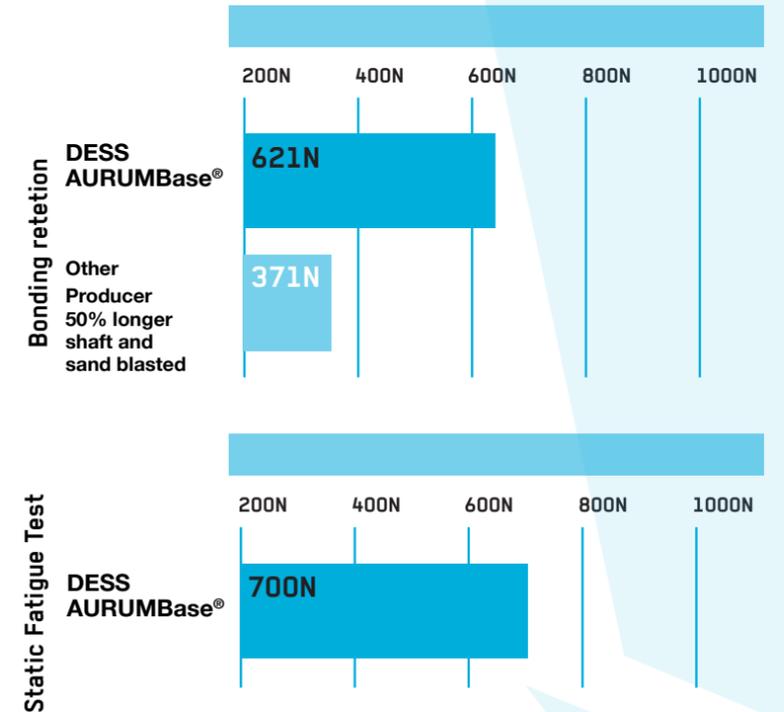
Bond and Fatigue strenght



DESS AURUMBase® has comparable bonding retention to DESS Ti-Base and clearly superior to a competitor brand with a 50% longer cement shaft once sandblasted.

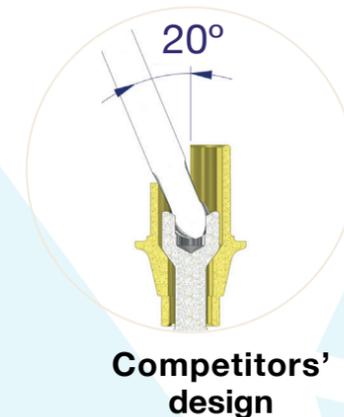
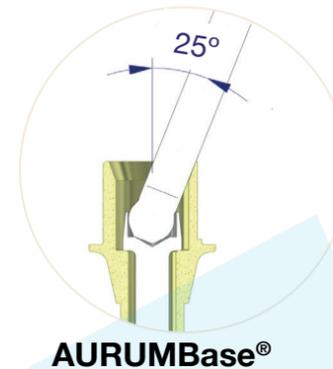


No significant difference in static fatigue strength between DESS AURUMBase® and DESS Ti Base in standard ISO 13485 test using Zirconia caps despite AURUMBase® having a 33% shorter shaft.



AURUMBase®

Graphic illustration comparing DESS AURUMBase® solution and the common design of competitors' where part of the cylinder is cut open to allow the angulation of the screwdriver. This design does not increase the possible tilt while it introduces other possible mechanical disadvantages. The cylinder cut design restricts the rotational freedom of the entry angle.



AURUMBase®



NobelActive® NobelReplace® CC Active Hex

| | NP | RP |
|--|--------|---------|
| | 3.5 | 4.3/5.0 |
| | 36.041 | 36.042 |
| | 37.041 | 37.042 |
| | 19.441 | 19.442 |



Nobel Replace Select™ Tri-Lobe

| | NP | RP | WP |
|--|--------|--------|--------|
| | NP/3.5 | RP/4.3 | WP/5.0 |
| | 36.004 | 36.005 | 36.006 |
| | 37.004 | 37.005 | 37.006 |
| | 19.460 | 19.405 | 19.405 |



NobelBrånemark® External Hex Universal

| | NP | RP |
|----------|----------|----------|
| | NP/3.5 | RP/4.1 |
| GH 0,3mm | 36.001 | 36.002 |
| GH 1,5mm | 36.001/2 | 36.002/2 |
| GH 2,5mm | 36.001/3 | 36.002/3 |
| GH 0,3mm | 37.001 | 37.002 |
| GH 1,5mm | 37.001/2 | 37.002/2 |
| GH 2,5mm | 37.001/3 | 37.002/3 |
| | 19.401 | 19.402 |



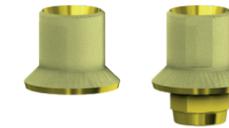
3i Osseotite® External Hex USA

| | | NP | RP | WP |
|----------|--|----------|----------|--------|
| | | 3.4 | 4.1 | 5.0 |
| GH 0,3mm | | 36.011 | 36.012 | 36.013 |
| GH 1,5mm | | 36.011/2 | 36.012/2 | |
| GH 2,5mm | | 36.011/3 | 36.012/3 | |
| GH 0,3mm | | 37.011 | 37.002 | 37.003 |
| GH 1,5mm | | 37.011/2 | 37.012/2 | |
| GH 2,5mm | | 37.011/3 | 37.012/3 | |
| | | 19.402 | 19.402 | 19.402 |



3i Certain® Internal Hex "CLICK"

| | | NP | RP | WP |
|--|--|--------|--------|--------|
| | | 3.4 | 4.1 | 5.0 |
| | | 36.014 | 36.015 | 36.016 |
| | | 37.014 | 37.015 | 37.016 |
| | | 19.438 | 19.438 | 19.438 |



Straumann® Tissue Level & synOCTA® Octagon

| | | RN | WN |
|--|--|---------|---------|
| | | 4.1/4.8 | 4.8/6.5 |
| | | 36.046 | 36.047 |
| | | 37.009 | 37.045 |
| | | 19.446 | 19.446 |



Straumann® Bone level® Conical BL

| | | NP | RP |
|--|--|--------|------------|
| | | NC/3.3 | RC/4.1-4.8 |
| | | 36.043 | 36.044 |
| | | 37.043 | 37.044 |
| | | 19.443 | 19.443 |



Straumann® BLX
Conical BLX

| | | RB | WB | RB/WB |
|----------|--|------------|------------|--------------|
| | | 3.5 | 4.5 | |
| GH 1,5mm | | 36.062 | 36.063 | 36.062 |
| GH 1,5mm | | 37.062 | 37.063 | 37.062 |
| | | 19.441 | 19.441 | 19.441 |



Neodent Grand Morse®
NEO GM

| | | | GM |
|----------|--|--|-----------|
| GH 2,5mm | | | 36.035/3 |
| GH 2,5mm | | | 37.035/3 |
| | | | 19.444 |



Zimmer® Screw-vent
Internal Hex USA

| | | NP | RP | WP |
|--|--|------------|------------|------------|
| | | 3.5 | 4.5 | 5.7 |
| | | 36.017 | 36.018 | 36.019 |
| | | 37.017 | 37.018 | 37.019 |
| | | 19.417 | 19.417 | 19.417 |



Astra Tech implant system™ EV
Conic EVO

| | | EV/3.6 | EV/4.2 | EV/4.8 |
|-----------------|--|---------------|---------------|---------------|
| | | 3.6 | 4.2 | 4.8 |
| | | 36.059 | 36.060 | 36.061 |
| | | 37.059 | 37.060 | 37.061 |
| On uniabutment® | | 36.058 | | |
| | | 19.441 | 19.460 | 19.461 |
| On uniabutment® | | 19.331 | | |



Astra Tech Osseospeed™
Internal Hex Conic

| | | RP | WP |
|--|--|----------------|----------------|
| | | 3.5-4.0 | 4.5-5.0 |
| | | 36.024 | 36.025 |
| | | 37.024 | 37.025 |
| | | 19.441 | 19.425 |



Xive®
Internal Hex FD

| | | NP | RP | WP |
|--|--|------------|------------|------------|
| | | 3.4 | 3.8 | 4.5 |
| | | 36.038 | 36.039 | 36.040 |
| | | 37.038 | 37.039 | 37.040 |
| | | 19.438 | 19.438 | 19.438 |



Osstem® TS / Hiossen® ET
Conic OSS

| | | Mini | STD |
|--|--|-------------|----------------|
| | | Mini | Regular |
| | | 36.072 | 36.073 |
| | | 37.072 | 37.073 |
| | | 19.444 | 19.444 |



Camlog®
Internal Cam

| | | 3.8 | 4.3 |
|--|--|------------|------------|
| | | 3.8 | 4.3 |
| | | 36.065 | 36.066 |
| | | 37.065 | 37.066 |
| | | 19.444 | 19.444 |



Conelog®
Internal Con

| | NP | RP | WP |
|--|--------|---------|--------|
| | 3.3 | 3.8/4.3 | 5.0 |
| | 36.074 | 36.075 | 36.076 |
| | 37.074 | 37.075 | 37.076 |
| | 19.474 | 19.474 | 19.474 |



Megagen AnyRidge®
Conic Anyr

| | |
|--|--------|
| | 36.057 |
| | 37.057 |
| | 19.460 |



Biohorizons® internal
Internal hex BH

| | NP | RP | WP |
|--|--------|--------|--------|
| | 3.5 | 4.5 | 5.7 |
| | 36.087 | 36.088 | 36.089 |
| | 37.087 | 37.088 | 37.089 |
| | 19.417 | 19.417 | 19.417 |



Medentis ICX®
Conic IC

| | | |
|----------|--|--------|
| GH 2,2mm | | 36.080 |
| GH 0,9mm | | 36.180 |
| GH 2,2mm | | 37.080 |
| GH 0,9mm | | 37.180 |
| 2,2mm | | 19.444 |
| 0,9mm | | 19.443 |



MIS® seven
Internal hex MI

| | NP | SP |
|--|--------|----------|
| | 3.3 | 3.75-4.2 |
| | 36.017 | 36.018 |
| | 37.017 | 37.018 |
| | 19.417 | 19.417 |



Dentium Superline™ & Implantium®
Conic DENT

| | RP |
|--|---------------------|
| | 3.6 3.8 4.0 4.5 5.0 |
| | 36.090 |
| | 37.090 |
| | 19.405 |



Phibo® TSH®
External Hex PH

| | NP | SP | WP |
|--|----------|----------|----------|
| | S2 | S3-S4 | S5 |
| | 36.030 | 36.031 | 36.032 |
| | 36.030/2 | 36.031/2 | 36.032/2 |
| | 36.030/3 | 36.031/3 | 36.032/3 |
| | 37.030 | 37.031 | 37.032 |
| | 37.030/2 | 37.031/2 | 37.032/2 |
| | 37.030/3 | 37.031/3 | 37.032/3 |
| | 19.403 | 19.402 | 19.402 |

Multi-Unit



| | | |
|--|--------|--------|
| | 36.007 | 36.054 |
| | 19.306 | 19.331 |



Plastic sleeves for AURUMBase®

| | | |
|-----------|-----|-----------|
| Pack de 5 | 0° | 33.100-P5 |
| Pack de 5 | 10° | 33.101-P5 |
| Pack de 5 | 20° | 33.102-P5 |



Plastic sleeves for AURUMBase®

| | | |
|-----------|-----|-----------|
| Pack de 5 | 0° | 33.200-P5 |
| Pack de 5 | 10° | 33.201-P5 |
| Pack de 5 | 20° | 33.202-P5 |



| Torx® ball Screwdriver | 20 mm | 24 mm | 30 mm | 35 mm |
|------------------------|----------|----------|----------|----------|
| | DT20TB06 | DT24TB06 | DT30TB06 | DT35TB06 |

All DESS products are manufactured according to ISO 9001 and ISO 13485 with CE marking for all products Class IIb

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