



IDEAL[®] D3 NEEDLES

Suitable for Swine, Beef, Dairy, Sheep, Goat

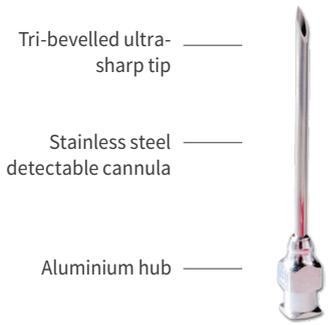
Neogen's detectable, durable, dependable needle, trusted by farmers and meat Quality Assurance Schemes world-wide.

Why choose Ideal[®] D3 Needles?

Complete Assurance: Detectable

Farmers and packers can be assured that their brand and animal's health is protected.

A previously patent protected detectable alloy, added to the cannula of the needle, ensures that the needle is detectable in metal detection systems while upholding a stainless-steel classification.



Cost-effective Solution: Durable

The risk of the needle bending or breaking is reduced more than 6-fold when compared to single-use stainless steel needles.

- The thick-walled cannula, pressed into sturdy plated brass hubs, enables users to administer multiple medications at an increased load strength
- A three-point precision ultra-sharp tip provides easy penetration to reduce the risk of potential losses from carcass damage due to injection site abscesses
- The sharpness is maintained to allow multiple injections* per needle

Practical Packaging: Dependable

Neogen has been at the forefront of patented detectable needle technology.

- D3 Needles are packed in trademarked red, colour coded cartridges for safety and convenience while transporting
- Cartridges are tampering evident and ISO colour coded for easy gauge and length recognition
- D3 Needles are packaged 100 per box and available in various lengths and gauges

Tamper-evident box



Sterilised using ethylene oxide (ETO) for increased shelf life

Protective cartridge

*The D3 needles have undergone comprehensive quality and durability controls, however, seek veterinary advice for the frequency of changing needles.



Product Codes

Brand	Ideal® Instruments
9415	Neogen D3 Detectable Needles (HP) 16G x 5/8" - 100 Pack
9416	Neogen D3 Detectable Needles (HP) 16G x 3/4" - 100 Pack
9420	Neogen D3 Detectable Needles (HP) 16G x 1" - 100 Pack
9417	Neogen D3 Detectable Needles (HP) 16G x 1.5" - 100 Pack
9428	Neogen D3 Detectable Needles (HP) 18G x 1/2" - 100 Pack
9422	Neogen D3 Detectable Needles (HP) 18G x 5/8" - 100 Pack
9421	Neogen D3 Detectable Needles (HP) 18G x 3/4" - 100 Pack
9423	Neogen D3 Detectable Needles (HP) 18G x 1" - 100 Pack
9424	Neogen D3 Detectable Needles (HP) 18G x 1.5" - 100 Pack
9418AL	Neogen D3 Detectable Needles AH (HP) 14G x 1" - 100 Pack
9419AL	Neogen D3 Detectable Needles AH (HP) 14G x 1.5" - 100 Pack
9411AL	Neogen D3 Detectable Needles AH (HP) 20G x 1" - 100 Pack
9412AL	Neogen D3 Detectable Needles AH (HP) 20G x 1/2" - 100 Pack

Application

D3 Needles (100/box)					
Size	Hub Type	ISO Gauge Colour	Cartridge Colour	Injection Type*	Applications**
14 G X 1" • 2.0 X 25 mm	Aluminium	Green	Red	IM	Cattle, Horses
14 G X 1.5" • 2.0 X 38 mm	Aluminium	Green	Red	IM	Cattle, Horses
16 G X 5/8" • 1.6 X 16 mm	Brass	White	Red	SQ	Cattle, Swine
16 G X 3/4" • 1.6 X 19 mm	Brass	White	Red	SQ	Cattle, Swine
16 G X 1" • 1.6 X 25 mm	Brass	White	Red	IM	Cattle, Swine, Horses
16 G X 1.5" • 1.6 X 38 mm	Brass	White	Red	IM	Cattle, Swine, Horses
18 G X 1/2" • 1.3 X 13 mm	Brass	Pink	Red	SQ	Cattle, Swine, Sheep, Goats
				IM	Calves, Piglets
18 G X 5/8" • 1.3 X 16 mm	Brass	Pink	Red	SQ	Cattle, Swine, Sheep, Goats
18 G X 3/4" • 1.3 X 19 mm	Brass	Pink	Red	SQ	Cattle, Swine, Sheep, Goats
				IM	Calves, Piglets
18 G X 1" • 1.3 X 25 mm	Brass	Pink	Red	IM	Cattle, Swine, Sheep, Goats
18 G X 1.5" • 1.3 X 38 mm	Brass	Pink	Red	IM	Cattle, Swine, Sheep, Goats
20 G X 1/2" • 0.9 X 13 mm	Aluminium	Yellow	Red	SQ	Swine, Horses, Sheep, Goats
				IM	Piglets
20 G X 1" • 0.9 X 25 mm	Aluminium	Yellow	Red	IM	Swine, Horses, Sheep, Goats

*Key: IM - Intramuscular SQ - Subcutaneous

**Recommended applications should only be used as a guide, always follow veterinary advice



Order yours today with a Neogen representative
 +44(0)1706 344 797 | biosecuritysales@neogen.com | neogen.com

D3™ Detectable Needles

Durable. Detectable. Dependable.

Patented Technology
 Patent No. 6,488,668



**From inside the farm gate
 to the dinner plate,
 one needle is too many.**

Broken needles are a major concern of the pork and beef industries. The National Pork Producers Council, in cooperation with the National Pork Board developed a needle use awareness campaign called “ONE is too many”. While even a single needle could cause severe consequences if it were to reach the dinner table, producers must balance that concern with cost-effectively injecting animals.

Ideal Instruments has the producers’ solution—D3 Detectable Needles. D3 Needles are the first designed with strength and detectability. Strength and detectability help ensure zero tolerance by keeping needles out of meat products to begin with, and easily detecting needles if they are present. In addition, the D3 Needles’ strength provides durability, and thus a cost-effective utilization rate.

D3 Detectable Needles are specifically designed for production animal use and processing plant detectability. In addition, they address packer HACCP and quality assurance programs.

Key Features & Benefits

Detectability

Ideal has developed and added a detectable alloy to the cannula of the D3 Needles. This patented alloy allows D3 Needles to be as much as 100% detectable in metal detection systems, while maintaining their stainless steel classification.

Strength

D3 Needles have thick-walled cannulas, which are crimped and pressed into sturdy, plated brass hubs. These stronger sidewalls increase load strength. Bending and breaking is reduced more than 6-fold over some conventional needles, and needle tips stay sharp longer. These superior features make the D3 Needles last longer than conventional injection needles.

Sharpness

D3 Needles are ultrasharp with three-point precision ground tips for sharper cuts and easier penetration. Sharpness increases the possible number of injections per needle, and reduces the risk of injection site abscesses.

Each D3 Needle has its comparable gauge size followed by the letter D stamped into the brass hub. This allows users to easily distinguish detectable needles from conventional needles.

Packaging

D3 Needles are packed in color-coded cartridges for safety and convenience while transporting. Cartridge labels are tamper evident and identify needle length and gauge.



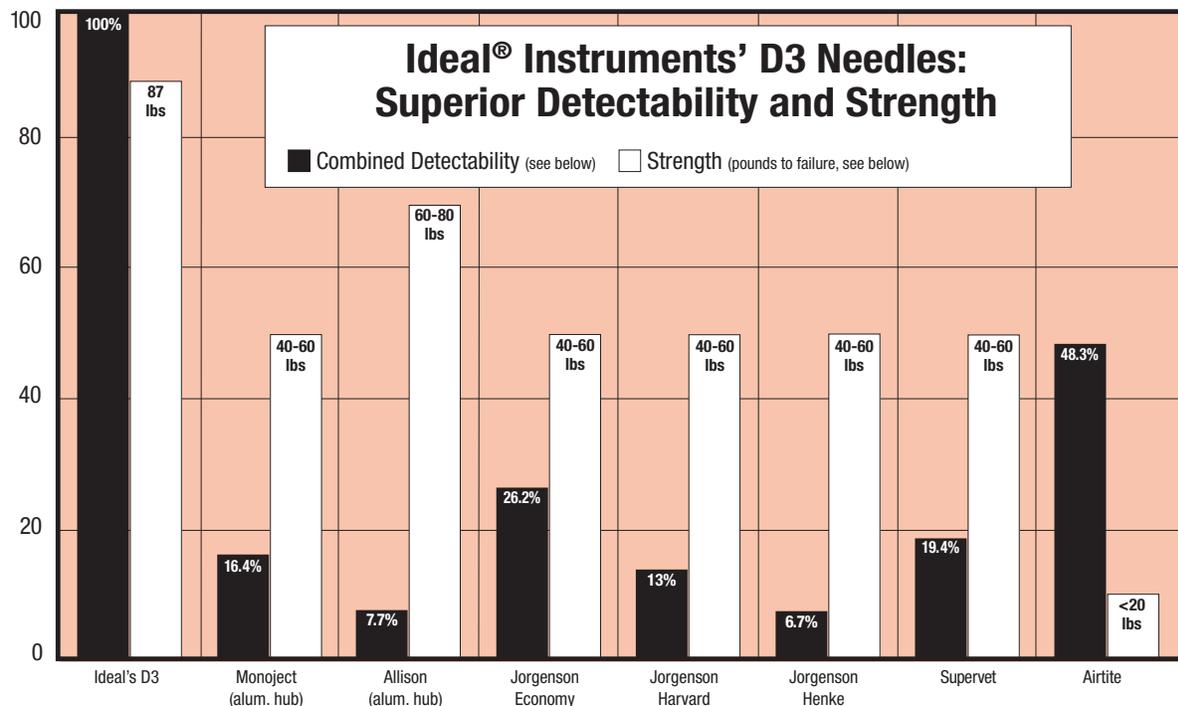
D3™ Detectable Needles



- Ultra sharp tri-beveled tip
- Detectable thick wall stainless steel cannula
- Sturdy, plated brass hubs for increased strength

Available Sizes 100 per box	
Product No.	Size
9418AL*	14 x 1"
9419AL*	14 x 1½"
9415	16 x ⅝"
9416	16 x ¾"
9420	16 x 1"
9417	16 x 1½"
9421	18 x ¾"
9422	18 x ⅝"
9423	18 x 1"
9424	18 x 1½"
9428	18 x ½"
9412AL*	20 x ½"
9411AL*	20 x 1"
9430AL	20 x 1½"

*These D3 needles have regular wall detectable cannulas and aluminum hubs



The above chart reflects data from studies on veterinary needle strength and detectability performed by Dr. Steven Hoff of Iowa State University's Department of Agricultural and Biosystems Engineering.

COMBINED DETECTABILITY: This percentage combines the needles' detectability as measured in three different positions in a meat sample when passed through a standard meat industry metal detector. The three positions were horizontal back (HB), horizontal side (HS), and vertical center (VC). The raw numbers used in the combinations were (in %): Ideal D3: HB-100, HS-100, VC-100; Monoject: HB-36.7, HS-4.4, VC-8; Allison: HB-23, HS-0, VC-0; Jorgenson Economy: HB-35.7, HS-21.4, VC-21.4; Jorgenson Harvard: HB-33.3, HS-2.8, VC-2.8; Jorgenson Henke: HB-20, HS-0, VC-0; Supervet: HB-33.3, HS-8.3, VC-16.7;

Airtite: HB-76.3, HS-31.3, VC-37.5.

Note: Ideal's D3 Needles were the only needles tested and found to be 100% detectable.

STRENGTH: This measures, in pounds, the strength to failure during full-embedment testing using 16-gauge needles. Testing of 18-gauge needles produced similar results. The strength of needle brands, other than Ideal, appear as ranges as reported by Dr. Hoff in the study results.

Full reports of Dr. Hoff's needle strength (December 22, 2002) and detectability studies (November 19, 2002) are available upon request. For more information, contact Neogen via the information below.



944 Nandino Blvd., Lexington, KY 40511 USA • 800-621-8829 or 859-254-1221
Fax: 800-255-1168 • inform@neogen.com • animalsafety.neogen.com

