

VELOCITY™ FAMILY OF NON-IODINE TEAT DIPS

Chlorine dioxide dips that provide
optimal teat health for your farm



VELOCITY FAMILY OF TEAT DIPS

Introducing the new, expanded line of chlorine dioxide teat dips from GEA.



More dairy farmers are choosing chlorine dioxide based teat dips. The new line of Velocity teat dips are the perfect choice.

Exceptional cost-effective alternatives to iodine

Dairy producers who are looking for low-cost alternatives to iodine are choosing chlorine dioxides — since they are known to have great killing power that is also excellent in terms of teat health. Chlorine dioxide performs well in many different climates and housing environments, regardless of herd size, while saving money.

Efficacy can exceed that of iodine dips

Velocity Family dips were extensively tested against contagious and environmental mastitis-causing organisms on university and commercial herds throughout the United States — and they are proven effective. Challenge testing has shown that in many cases, Velocity Family dips have exceeded iodine efficacy!

Easy to mix

Velocity Family dips can be mixed by hand or your local GEA dealer can set up a blending system. There are several blending systems currently

available for all farm sizes, which are explained in further detail in the GEA Hygiene Blending Systems brochure.

Undeniable benefits to teat health

Chlorine dioxide teat dips are excellent exfoliators and are great dips to use to help minimize hyperkeratosis and to get the teat skin on your herd revitalized and healthy — so their natural barrier to pathogens is enhanced.

Flexibility to meet your needs

Several products in the Velocity Family give dairy producers the flexibility to change the chlorine dioxide concentration and/or emollient percentage to effectively combat challenging changes in herd environment.

100% Customer Satisfaction

All GEA hygiene products have a 100% Customer Satisfaction Guarantee.

The New Expanded VELOCITY FAMILY

	Pre only	Pre/Post	Post/ Barrier	Concen- trate	Ready to use*	Barrier	Cost	Chal- lenges**
Velocity Pre	P			C			\$	
Velocity Tempo		P _P		C			\$	
Velocity Plus Gold		P _P		C			\$	
Velocity Plus		P _P		C			\$	
Velocity		P _P			A+B		\$	
Velocity Gold Barrier			P _B		A+B	B	\$	

*Ready to use is defined by only needing to mix two chemical parts together.

**More challenges are met as the product quality and cost increases. Challenges include increased challenge to soil load, hot humid weather, and different mastitis causing organisms.

THE POWER OF CONCENTRATES

Concentrates go further and last longer—creating less cost, time and waste.

Fewer deliveries to farms

Spend less time ordering and storing so that you can spend more time servicing your farms.

Smaller footprint on farm

Saves storage space on your farm, allowing for a cleaner workspace and better efficiency.

Blending adjustability

Farmers have the control to adjust product strength and emollient levels to meet current farm needs. Concentrates mix easily — manually or with an automatic blending system.

Economical

Diluting on-farm means cost savings. Using less packaging also reduces the environmental impact.



The Velocity line of teat dips are available in a variety of forms such as concentrates, ready-to-use and barrier. They can be ordered in sizes from 5 gallons to 250 gallons.

RIGOROUS EFFICACY TESTING

Our products are tested above and beyond industry standards, consistently exceeding requirements.

All of the Velocity teat dips have been tested according to EN 1656 specifications and have exceeded kill rate standards against a wide-range of contagious and environmentally known mastitis-causing pathogens and have proven to be effective for mastitis prevention while at the same time preserving overall teat health and condition.

Pre-Dip	Post-Dip
Pre-Dip standard testing requirements <ul style="list-style-type: none"> • 30-second contact time • Interfering substance: 0.3% Bovine Serum Albumin 	Post-Dip standard testing requirements <ul style="list-style-type: none"> • 5-minute contact time • Interfering substance: 1% milk powder soil load
Pre-Dip challenge testing requirements <ul style="list-style-type: none"> • 15-second contact time • Interfering substance: 0.3% Bovine Serum Albumin 	Post-Dip challenge testing requirements <ul style="list-style-type: none"> • 5-minute contact time • Interfering substance: 2.5% milk powder soil load
Organisms tested <ul style="list-style-type: none"> • <i>E. coli</i> • <i>Klebsiella pneumonia</i> • <i>Strep. uberis</i> • <i>Strep. agalactiae</i> • <i>Staph. aureus</i> • <i>Strep. dysgalactiae</i> 	Organisms tested <ul style="list-style-type: none"> • <i>E. coli</i> • <i>Strep. agalactiae</i> • <i>Staph. aureus</i>

PRE-DIP

VELOCITY PRE



Three component chlorine dioxide sanitizing teat dip system

RTU: 1,000 ppm | 1% emollient | Contains high detergency surfactant | NPE free

Powerful, broad-spectrum germicide

Once the three components of Velocity Pre are mixed together, very powerful germicides (chlorine dioxide and chlorous acid) are produced. As a result, Velocity Pre is highly effective as a pre-dip against environmental streps and coliforms that are key mastitis-related organisms. Velocity Pre retains its effectiveness for up to 12 hours when mixed as directed (see Directions for Use for further details).

Versatile application

User friendly and versatile with dip, spray or foaming capabilities.

Cleanability

Specially formulated surfactants help to easily remove soil load on teats for a quick, efficient cow prep.

Mixing

Velocity Pre can easily be manually mixed. An automated blending system is available for those who prefer automated mixing.

100% customer satisfaction

All GEA hygiene products have a 100% customer satisfaction guarantee.

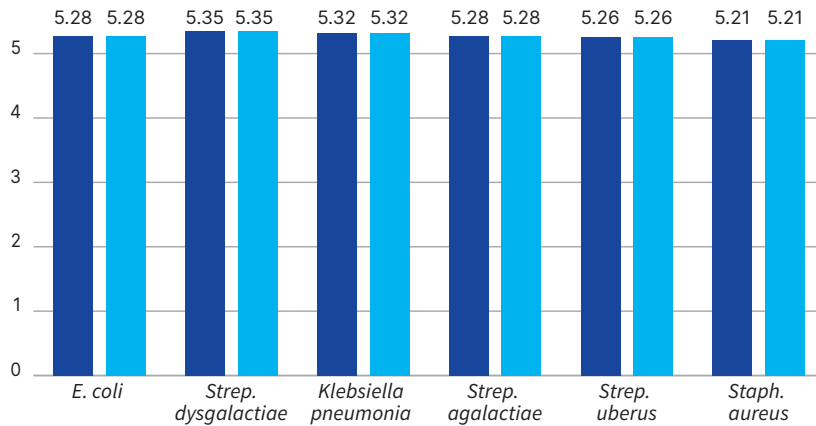


At time of application.



2 minutes after application, the teats remain wet for easy cleaning.

Velocity Pre vs iodine 0.5%, 2%*



■ 0.5% iodine, 2% emollient
 ■ Velocity Pre

Part Number	Required Parts
7751-0040-652	Velocity Pre – Activator 5 gallon pail
7751-0041-093	Velocity Pre – Activator 15 gallon drum
7751-0042-155	Velocity Pre – Activator 55 gallon drum
7751-0041-177	Velocity Pre – Activator 250 gallon tote
7751-0040-672	Velocity Pre – Base 5 gallon pail
7751-0041-073	Velocity Pre – Base 15 gallon drum
7751-0042-135	Velocity Pre – Base 55 gallon drum
7751-0041-197	Velocity Pre – Base 250 gallon tote
7755-1000-348	Velocity Pre – Literature (pkg of 20)

Please check SalesPlus for current pricing.

*Pre Dip: 30-second contact time

PRE/POST-DIP

VELOCITY TEMPO



Four component chlorine dioxide sanitizing teat dip system

RTU: 1,000 ppm | 1%, 5%, 10% or 15% emollient | Contains high detergency surfactant | NPE free

Powerful, broad-spectrum germicide

Once the components of Velocity Tempo are blended, very powerful germicides (chlorine dioxide and chlorous acid) are produced. Hence, Velocity Tempo is highly effective as a pre and post dip against environmental and contagious mastitis-causing organisms.

Highly economical

Velocity Tempo is a user friendly, highly economical choice for pre and post milking applications — capable of being dipped, sprayed or foamed.

Versatile product blending

As a product blended on-farm using concentrates, dairy producers have the ability to adjust the skin conditioning levels based on teat soil load or udder health status. The ability to customize a teat dip package for your

farm, with the flexibility to make changes when needed throughout the year, allows you to optimize your costs while best supporting teat and udder health.

Excellent cleanability

Specially formulated surfactants help to easily remove soil load on teats, providing effective kill of bacteria without irritation to cows' teats.

Visible color

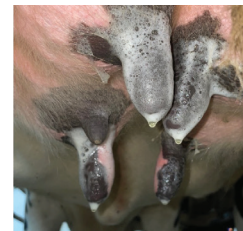
Product is easy to apply and provides a yellow color for visible confirmation that the teats have been properly dipped and protected.

Mixing

Velocity Tempo can easily be manually mixed. An automated blending system is available for those who prefer automated mixing.

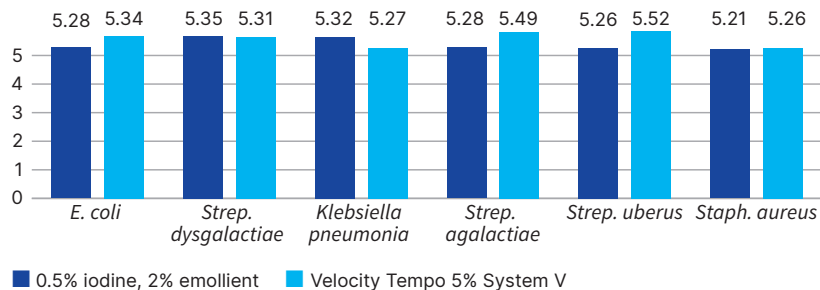


Freshly dipped teat

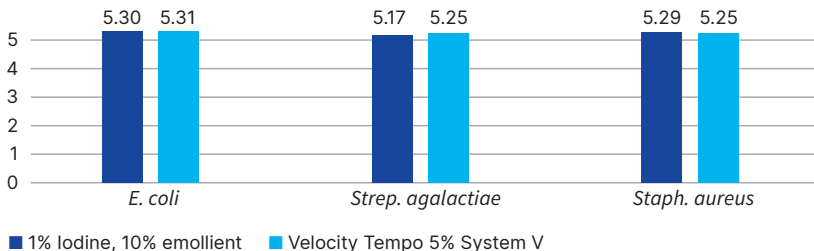


Foamed application

Velocity Tempo vs iodine 0.5%, 2%*



Velocity Tempo vs iodine 1%, 10%**



Part Number

Required Parts

7751-0041-843	Velocity Tempo – Activator 15 gallon drum
7751-0042-825	Velocity Tempo – Activator 55 gallon drum
7751-0041-757	Velocity Tempo – Activator 250 gallon tote
7751-0041-672	Velocity Pre – Base 5 gallon pail
7751-0041-073	Velocity Pre – Base 15 gallon drum
7751-0042-135	Velocity Pre – Base 55 gallon drum
7751-0041-197	Velocity Pre – Base 250 gallon tote (945 liters)
7751-1000-383	Velocity Tempo – Literature (pkg of 20)

Velocity Tempo Activator is designed for blending with Velocity Pre Base. Please check SalesPlus for current pricing.

* Pre Dip: 15-second contact time

** Post Dip: 1% milk powder soil load

PRE/POST-DIP

VELOCITY PLUS/PLUS GOLD



Four component chlorine dioxide sanitizing teat dip system

RTU: 800, 1,000, or 1,200 ppm | 1%, 5%, 10% or 15% emollient | Contains DDBSA and lactic acid | NPE free

Versatile RTU product offering

The ability to customize a teat dip package just for your farm, with the flexibility to make changes when needed throughout the year, allows you to optimize your costs while best supporting health.

On-farm concentrate blending

Dairy operations can benefit from producing fresh teat dip product as needed, oftentimes utilizing a smaller storage footprint.

Superior germicidal ingredient package

Velocity Plus and Velocity Plus Gold contain a powerful combination of germicides to handle some of the most challenging conditions. Chlorine dioxide provides an immediate kill and DDBSA increases germicidal activity over time for long-lasting efficacy. DDBSA also aids in detergency for improved cleanability. Lactic acid provides additional antimicrobial benefits with its skin conditioning properties.

Teat condition benefits

When either product is used as a post dip, it is an excellent skin exfoliator and conditioner, ideal for diminishing hyperkeratosis, protecting teats from weather-related chapping, and overall reducing the risk of skin related mastitis. These concentrate systems can be combined with GEA's System III or System V conditioning package to enhance teat protection.

Extensively tested

Both products have been proven to be efficacious as a pre and post dip using germicidal activity tests against contagious and environmental mastitis pathogens while preserving overall teat health.

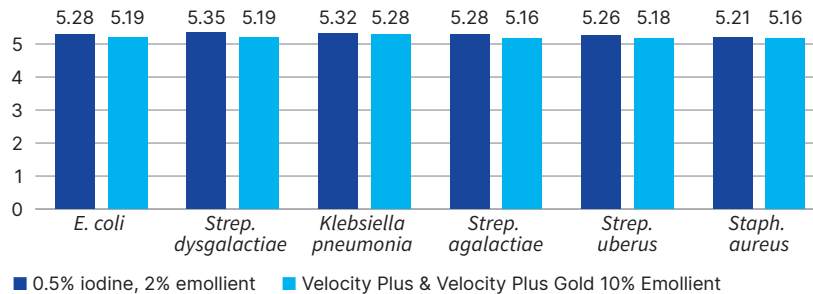
Vibrant color

Velocity Plus offers a vibrant green color, while Velocity Plus Gold has a vibrant yellow color. Each provides visible confirmation that teats have been dipped properly.

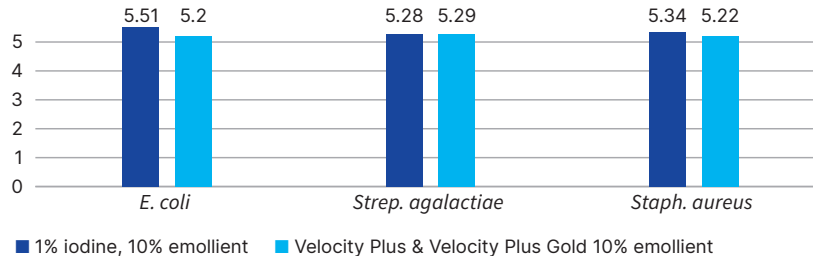
Properties	Velocity Plus***	Velocity Plus Gold***
Vibrant color	Green +++	Yellow ++
Viscosity	++	+



Velocity Plus and Velocity Plus Gold vs iodine 0.5%, 2%*



Velocity Plus and Velocity Plus Gold vs iodine 1%, 10%**



Part Number

Required Parts

7751-0041-833	Velocity Plus Gold – Base 15 gal. drum
7751-0042-815	Velocity Plus Gold – Base 55 gal. drum
7751-0041-747	Velocity Plus Gold – Base 250 gallon tote
7751-0041-042	Velocity Plus – Activator 5 gal. pail
7751-0041-653	Velocity Plus – Activator 15 gal. drum
7751-0042-615	Velocity Plus – Activator 55 gal. drum
7751-0041-507	Velocity Plus – Activator 250 gallon tote
7751-0040-982	Velocity Plus – Base 5 gal. pail
7751-0041-583	Velocity Plus – Base 15 gal. drum
7751-0042-575	Velocity Plus – Base 55 gal. drum
7751-0041-317	Velocity Plus – Base 250 gallon tote
7755-1000-372	Velocity Plus – Literature (pkg of 20)
7755-1000-382	Velocity Plus Gold – Literature (pkg of 20)

***Velocity Plus Gold Base is designed for blending with Velocity Plus Activator. Please check SalesPlus for current pricing.

*Pre Dip: 15-second contact time **Post Dip: 2.5% milk powder soil load

PRE/POST-DIP

VELOCITY



Two component chlorine dioxide sanitizing teat dip system

RTU: 500 ppm | 12.5% emollient | Contains DDBSA and lactic acid | NPE free

Superior germicidal ingredient package

Velocity contains a powerful combination of germicides to handle some of the most challenging conditions. Chlorine dioxide provides an immediate kill and DDBSA, a sulfonate surfactant, increases germicidal activity over time for long-lasting efficacy. DDBSA also aids in detergency for improved cleanability. Lactic acid provides additional antimicrobial benefits with its skin conditioning properties.

Effective mastitis protection

Velocity has been proven to be efficacious as a pre and post dip using germicidal activity tests against common pathogens.

Long lasting color and efficacy

Velocity remains efficacious and vibrant for one week after mixing (see directions for use for further details). The visible staining provides confirmation that the teats have been dipped properly.

Teat condition benefits

Velocity, when used as a post dip, is an excellent skin exfoliate and conditioner with 12.5% emollient. The qualities of this product make it ideal for diminishing hyperkeratosis, protection from weather-related chapping, and overall reducing the risk of skin related mastitis.

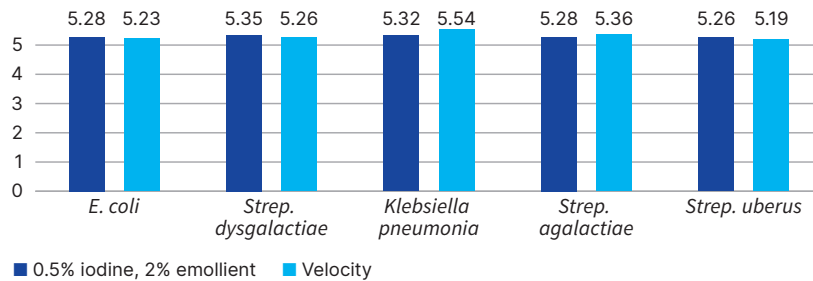
Cost Effective

Velocity is a non-iodine formulation that can be cost effectively brought into your udder health plan to help your bottom line.

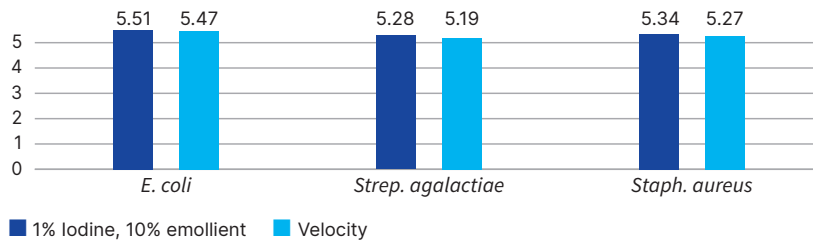
Easy to mix

Velocity can easily be mixed by hand or with a blending system.

Velocity vs iodine 0.5%, 2%*



Velocity vs iodine 1%, 10%**



Part Number

Required Parts

7751-0240-812	Velocity – Part B Case (4×1 gallon)
7751-0040-742	Velocity – Part B 4.5 gallon pail
7751-0041-013	Velocity – Part B 15 gal. drum
7751-0040-832	Velocity – Part A 5 gallon pail
7751-0042-023	Velocity – Part A 15 gallon drum
7751-0042-375	Velocity – Part A 55 gallon drum
7755-1000-357	Velocity – Literature (pkg of 20)

Please check SalesPlus for current pricing.

* Pre Dip: 15-second contact time

** Post Dip: 2.5% milk powder soil load

POST/BARRIER-DIP

VELOCITY GOLD BARRIER



Two component chlorine dioxide sanitizing teat dip system

RTU: 1,000 ppm | 12% emollient | Low-drip formula | NPE free

Barrier protection between milkings

The thick barrier forms a protective layer to help prevent the penetration of environmental pathogens into the teat canal. Glycerin ensures excellent teat skin condition, leaving skin supple and more resistant to harmful bacteria.

Easy 1:1 mixing

No matter what size farm you are on, a RTU product can quickly be made by mixing the Activator and Base with a one-to-one ratio, which also leads to a simplified re-ordering process.

Broad-spectrum germicidal kill

Velocity Gold Barrier was tested according to EN 1656 specifications (at 1,000 ppm) and it exceeded kill rate standards for *E. coli*, *Staph aureus*, and *Strep. uberis*, even up to 24 hours after mixing.

Exceptional skin conditioning

Enhanced with 12% glycerin, Velocity Gold Barrier softens teats as it protects teat skin tissue from harsh weather and unfavorable environments. This keeps teat ends soft and pliable, improving udder health and decreasing skin-related mastitis problems.

Low-drip application

The low-drip formula is specially designed to ensure that product remains on the teat, where it is most effective, and in turn creates less waste.

Excellent visibility

Product is easy to apply and provides a bright yellow color for visible confirmation that the teats have been properly dipped and protected.

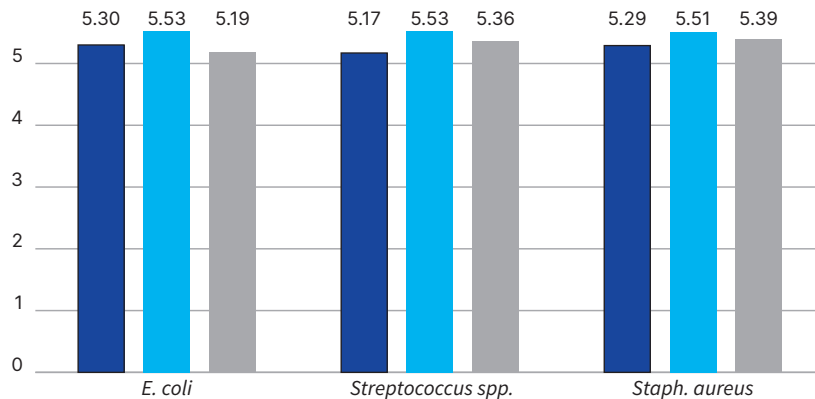


Freshly dipped product



Low drip performance

Velocity Gold Barrier vs iodine 1%, 10%



- 1% Iodine, 10% emollient
- Velocity Gold Barrier $\le 1\text{ hr}$ mixed
- Velocity Gold Barrier $\le 24\text{ hr}$ mixed

Part Number	Required Parts
7751-0041-593	Velocity Gold Barrier – Activator 15 gallon drum
7751-0042-585	Velocity Gold Barrier – Activator 55 gallon drum
7751-0041-417	Velocity Gold Barrier – Activator 250 gallon tote
7751-0041-603	Velocity Gold Barrier – Base 15 gallon drum
7751-0042-595	Velocity Gold Barrier – Base 55 gallon drum
7751-0041-487	Velocity Gold Barrier – Base 250 gallon tote
7755-1000-381	Velocity Gold Barrier – Literature (pkg of 20)

Please check SalesPlus for current pricing.

* Post Dip: 1% milk powder soil load

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