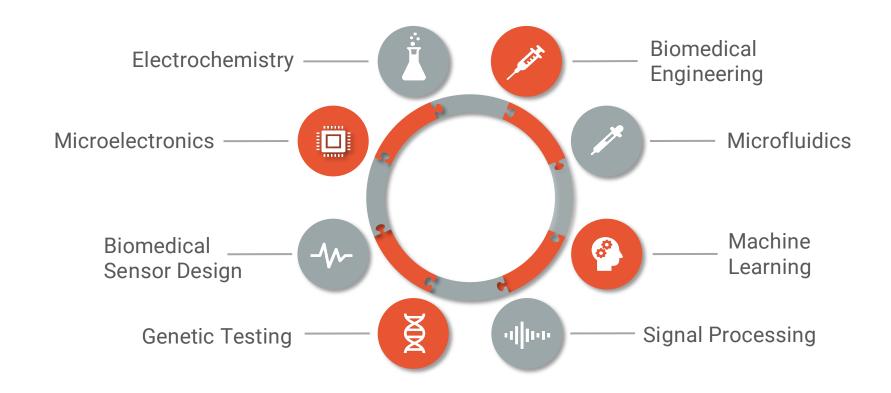


COMPANY PROFILE & VISION





"Enabling rapid, LAB grade testing for health and performance"



PROBLEM



Individuals under heat stress conditions are 4X more likely to experience occupational heat strain.



15%

Of the workforce suffer from kidney disease or acute kidney injury 30%
Of the workforce report productivity losses





35%

Of the workforce
experience
occupational heat
strain



HEAT STRESS IS SERIOUS



National Emphasis Program (NEP)
Outdoor and Indoor Heat Related Hazards

- US Labor Department April 2022

\$2.4 Trillion by 2030

Predicted global cost from lost worktime

18 of last 19 summers hottest on record OSHA NEP

384 heat-related deaths over the last decade. *US Dept of Labor stats*



"Reducing workplace heat-related illnesses and injuries is a top priority for the Department of Labor"

- OSHA National News Release, April 12, 2022 -



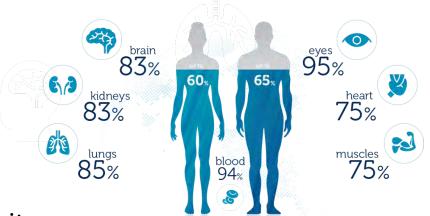
PREVENTING HEAT STRESS



OSHA Recommendations

Heat Illness Prevention

- Provide training
- Easy access to cool water
- Acclimatization
- Provide cool shaded area
- Designate a responsible Monitor



#1 way to prevent heat stress is to keep workers hydrated.

- Provide water
- Remind workers to hydrate
- Provide shade
- Water breaks

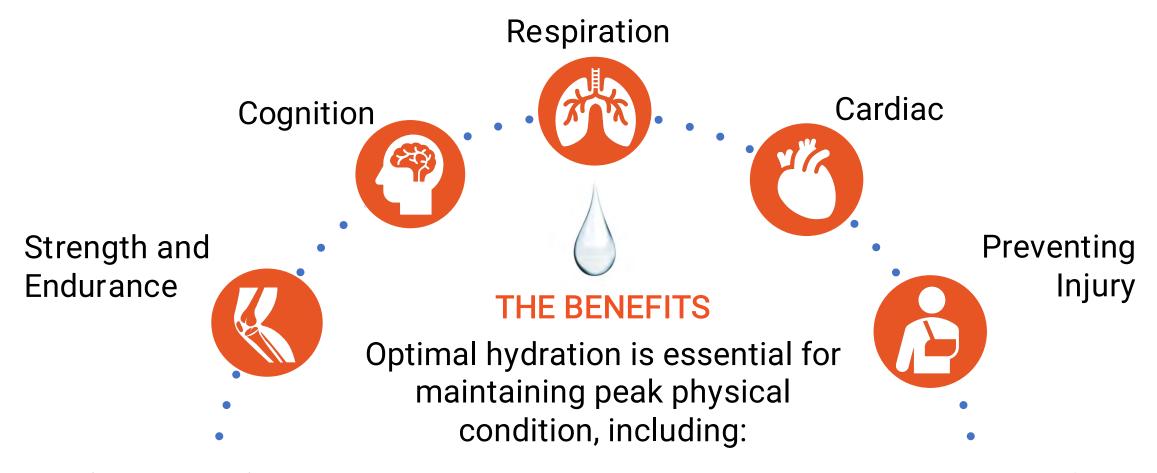
Why Monitor & Test Hydration?

Identifying workers who are Dehydrated



HYDRATION & WORKER PERFORMANCE





1-2% Body Mass Loss Reduces COGNITION, TASK PERFROMANCE, REACTION TIME, SHORT TERM MEMORY, and MOOD STATE

WATER AVAILABILITY

Having drinking water available doesn't mean workers will drink





78 percent of associates suffering from heat illness were dehydrated—despite having drinking water available

State of California

Over 75% of workers show up moderately dehydrated or worse

How can safety managers monitor hydration status



TRACKING HYDRATION: FLUID LOSS



Tracking and monitoring hydration is a challenge, current methods include:



Lab-based Testing

Blood Plasma, Isotope Dilution

- Invasive
- Complex
- Expensive

For workplace environments, results need to be fast and labs won't work.



Urine Specific Gravity (USG)

Only reliable under strict protocols

- Proven Unreliable for Spot Checks
- Gross & Unpleasant to Handle
- Very Invasive

Has been shown NOT to be a good indicator of exertion related dehydration



Pee Color Charts

Better than nothing but

- More unreliable than USG.
- Left up to the Worker's Discretion
- Hard to Document or Record

To monitor dehydration effectively managers should record results for historical tracking



SALIVARY OSMOLARITY (SOSM)

CONCENTRATION OF PARTICLES – PREDOMINANTLY ELECTROLYTES IN SALIVA



Salivary osmolarity is a proven method for hydration testing but **not very functional**

Past (up to \$25,000)

Advanced Instruments Model 3320 Osmometer



With the first portable salivary osmolarity testing system, we make this test practical

Present (\$1,000)

MX3 Hydration Testing System







THE MX3 HYDATION TESTING SYSTEM







HOW TO TAKE A HYDRATION TEST





Insert disposable test strip into device

The entire test takes approximately 25 seconds from start to finish

Take a sample anytime, anywhere

Saliva is collected from the tongue and measurement is initiated within 5 seconds

Immediate Results

Stored in user's profile within Admin's MX3 App and cloudbased database

Tracking, Alerts and Analytics

Helping Supervisors, HSE and Site managers develop risk mitigation strategies



INTERPRETING RESULTS



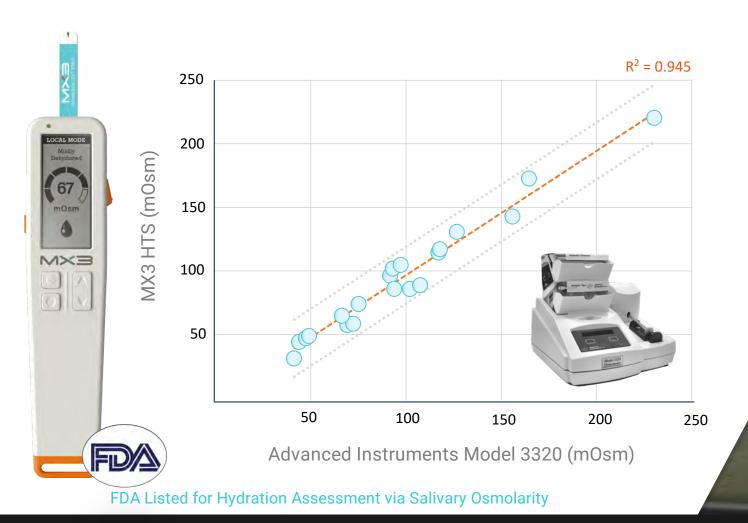




goSafe.com/HeatStress

SOSM TEST STRIP: VALIDATION





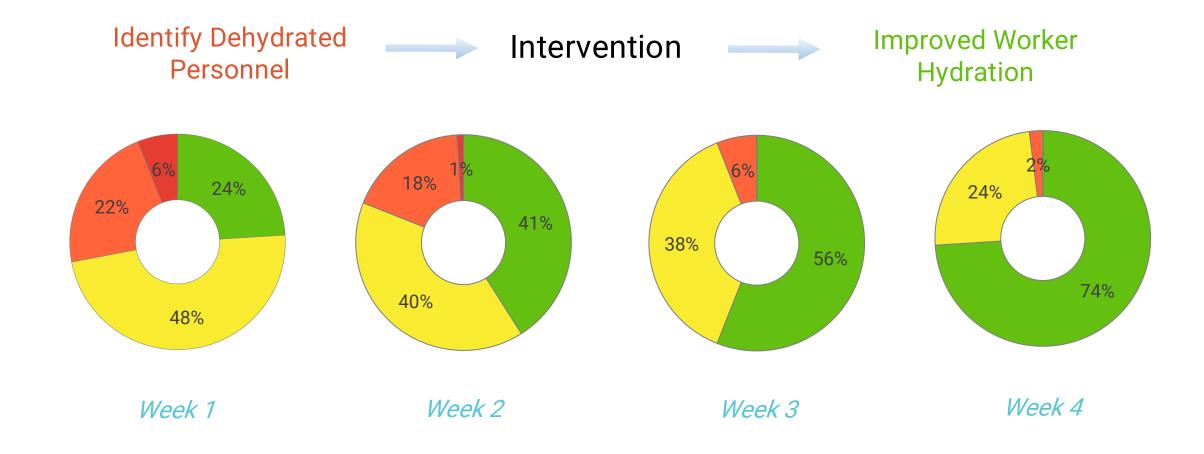
U.S. AIR FORCE MX3 test data compared to FDA-approved commercial osmometer CONCLUSION: Very accurate $(R^2 = 0.945)$

Tests conducted by the USAF

goSafe.com/HeatStress

TEAM HYDRATION TRACKING: SOSM





MX3 SWEAT TEST

















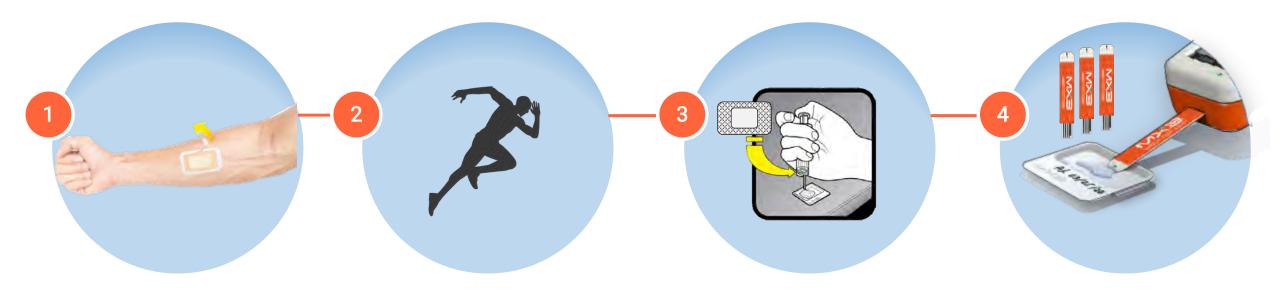






HOW TO TAKE A SWEAT TEST





Clean and apply sweat patch on forearm

Exercise (30-60mins) Mod/High Intensity Place sweat pad in plunger and extract sweat

Results in 20-30 seconds with 3 measurements

SWEAT TEST RESULTS



710 mg/L

Low Sodium

BEFORE EXERCISE

Ingestion of a moderately concentrated (800-1000 mg/L) sodium drink or supplement the night before and ~1 hour before exercise may improve your starting hydration status by increasing plasma volume.

DURING EXERCISE

To assist with maintaining hydration during intense or extended exercise you may benefit from ingesting a low-concentration (300-700 mg/L) sodium drink or supplement.

AFTER EXERCISE

If you have a high sweat rate, or exercised for a long duration, ingesting a low-concentration (300-700 mg/L) sodium drink or supplement will assist with rehydration.

MX3 Sweat sodium test



Sweat sodium concentration can range from 250 mg/L to 3000 mg/L. Your result indicates that you have a *lower than average* sweat sodium concentration.

Notes

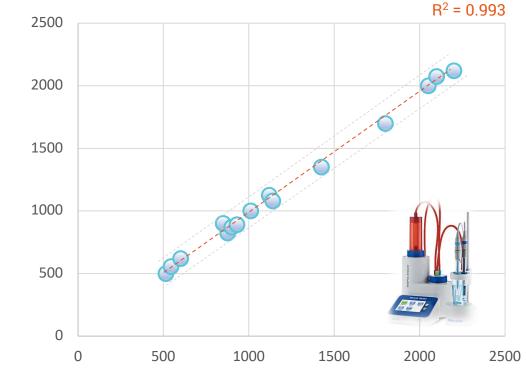
BEFORE EXERCISE		DURING	EXERCISE	AFTER I	AFTER EXERCISE	
Ingestion of a moderately concentrated (800-1000 mg/L) sodium drink or supplement the night before and ~1 hour before exercise may improve your starting hydration status by increasing plasma volume. Gatorade Endurance Concentration: 873 mg/L		To assist with maintaining hydration during intense or extended exercise you may benefit from ingesting a low-concentration (300-700 mg/L) sodium drink or supplement. Gatorade (Original) Concentration: 457 mg/L		If you have a high sweat rate, or exercised for a long duration, ingesting a low-concentration (300-700 mg/L) sodium drink or supplement will assist with rehydration.		
				Gatorade (Original) Concentration: 457 mg/L		
						Sodium
Calories	65	Calories	140	Calories	140	
Volume	250 mL	Volume	600 mL	Volume	600 mL	
DripDrop ORS (30 g/L)		DripDrop ORS (20 g/L)		DripDrop ORS (20 g/L)		
Concentration: 990 mg/L		Concentration: 660 mg/L		Concentration: 660 mg/L		
Sodium	990 mg	Sodium	660 mg	Sodium	660 mg	
Calories	105	Calories	70	Calories	70	
Volume	1000 mL	Volume	1000 mL	Volume	1000 mL	
KODA (2 Tablet/L)		KODA (1 Tablet/L)		KODA (1 Tablet/L)		
Concentration: 860 mg/L		Concentration: 430 mg/L		Concentration: 430 mg/L		
Sodium	860 mg	Sodium	430 mg	Sodium	430 mg	
Calories	12	Calories	6	Calories	6	
Volume	1000 mL	Volume	1000 ml	Volume	1000 mL	

The MX3 sweat sodium test result is not medical advice. If you, your workers or your athletes are experiencing headaches, dizziness nausea or other symptoms of dehydration please seek immediate medical attention.

SWEAT SODIUM TEST: VALIDATION







Mettler Toledo EasyNa (mg/L)



MX3 test data compared to lab grade, sweat sodium electrochemical analyzer

Accuracy is *CRITICAL* as sweat tests estimate whole body sweat sodium

 $(R^2 = 0.993)$



SALIVA HYDRATION TEST



TEST Prepare Measure



INTERPRET: Fluid Level

Indicates hydration status based on fluid loss.





ACT

Take immediate action to rehydrate the body with fluid intake.







How It Works



TRACK & OPTIMIZE

Track data over time in order to develop individualized plans for hydration optimization.



SWEAT SODIUM TEST







INTERPRET: Sodium Loss

Indicates sodium lost during high-intensity exercise.

Low	Mod	erate	His	gh	Very High
750	mg/L	1100	mg/L	1450	mg/L



ACT

Choose best electrolyte drink for you based on sodium loss score.





TOPDRILL



Customer Since 2019

- Employees: 2000
- Frequency of Hydration Measurements:
 - Daily

- Two biggest factor are Heat and Dehydration
- MX3 can be used by males and females without any privacy concerns
- Pre-Work (PREPARE)
 - Identify dehydrated personnel and action rehydration strategies

"People are Topdrill's most important assets"

"Having a control in place that allows for instant, actionable management of Individuals hydration levels is a game changer"

Vicki Pierce – OHS Manager



SWEDEN NATIONAL FOOTBALL TEAM





Customer Since January 2019

- Squad: 26 Players
- MX3 HTS Units (2)
- Frequency of Hydration Measurements:
 - Twice Daily during training and competition
- Time taken to measure hydration of squad:
 - 15 minutes

Team Implementation

- Initial Profiling
- Pre-Training (PREPARE)
 - Identify dehydrated athletes and action rehydration
- Post-Training (RECOVERY)
 - Identify athletes not fully recovered and give actionable rehydration advice strategies
- Injury Prevention

"The MX3 HTS has allowed us to track our athlete's hydration status and electrolyte replacement needs easily and conveniently, providing key information to help them to maintain optimal hydration"

Dale Reese - Performance and Sports Medicine Coordinator



SAN FRANCISCO GIANTS





Customer Since SEPTEMBER 2020

- Team: 40 Players
- MX3 HTS Units (2)
- Frequency of Hydration Measurements:
 - Daily during season
- Time taken to measure hydration of squad:
 - 20 minutes

Team Implementation

- Initial Profiling
- Pre-Training (PREPARE) 3-4 hours prior to training
 - Identify dehydrated athletes and action rehydration
- Post-Training (RECOVERY) early evening, player debrief/game preparation
 - Identify athletes not fully recovered and give actionable rehydration advice strategies

"The MX3's capability of quickly and efficiently testing someone's hydration and displaying a person's hydration score trend is what makes it unique".

Saul Martinez - Major League Sports Scientist



A PERFORMANCE PLATFORM FOR THE FUTURE



Hydration Testing

Measure the body's current hydration status immediately and accurately.

LEARN MORE +



Ketones Testing

Monitor ketone levels precisely.

COMING SOON



Sweat Testing

Measure sweat sodium levels so you can replace lost electrolytes.

LEARN MORE +



Lactate Testing

Measure levels of Lactic acid easily.

COMING SOON



Electrolyte Testing

Get a more complete picture of electrolyte levels.

COMING SOON



pH Testing

Quick test that determines salivary pH.

PROTOTYPE



GLOBAL EXPOSURE



OVER 2 MILLION

tests sold to date

Some of the largest industrials in the world with thousands of employees depending on MX3 each day





SOME OF OUR ADDITIONAL CUSTOMERS goSafe



MLB













NBA



































COMBAT

NCAA



















































