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Performance

X3

01-04-2010



Performance **X3**

Unique Product



Performance

Performance X3 is a technologically advanced multifunctional lubricant containing ceramic reinforced PTFE providing protection from wear and corrosion, even in the most extreme conditions.

The unique formula transports M-FLON® ceramic technology to bearing surfaces reducing wear and friction under conditions that will normally rupture a grease or oil film.

Performance X3

What it is not!



- ✔ Performance X3 is not a replacement of WD-40
- ✔ Performance X3 is not a replacement of a penetrating oil
- ✔ Performance X3 is not cheap
- ✔ Performance X3 is not foodgrade



Performance X3

What it is!



- ✔ Performance X3 is a multifunctional lubricant:
 - ✔ Resisting high temperatures up to 280 C
 - ✔ Resisting low temperatures as low as -55 C
- ✔ Performance X3 penetrates and loosens parts, bolts etc. extremely quickly
- ✔ Performance X3 contains PTFE & hBN and therefore possesses extreme anti wear properties
- ✔ Performance X3 works as an anti fretting agent
- ✔ Performance X3 works as an assembly lubricant
- ✔ Performance X3 cleans
- ✔ Performance X3 dissolves rust very quickly
- ✔ Performance X3 is a much better product than Triflow



Penetrating Lubricant Properties



- ✔ **LUBRICANT**
 - ✔ Reduces friction coefficient (anti friction)
 - ✔ Reduces wear
- ✔ **DEGRIPANT**
 - ✔ Diffuses quickly inside mechanical assemblies
 - ✔ Dissolves oxide, rust deposits and residues of other lubricants
- ✔ **PROTECTION**
 - ✔ Oxidation
 - ✔ Corrosion
 - ✔ Water
- ✔ **USE**
 - ✔ Efficient during a long period
 - ✔ Many applications
 - ✔ Wide temperature range
- ✔ **ENVIRONMENTAL & HEALTH & SAFETY**
 - ✔ No odours
 - ✔ Non hazardous
 - ✔ Environmentally friendly

Performance X3

Unique product



- ✔ Prevents:
 - ✔ Corrosion
 - ✔ Oxidation
 - ✔ Freezing of locks
- ✔ Makes sure rust, oxides and remains of previous lubricants are dissolved and do not return
- ✔ Helps to easy assemble parts
- ✔ Contains ceramic reinforced PTFE (M-FLON®) for very good load carrying capabilities
- ✔ Reduces energy consumption (less friction)
- ✔ Non-aggressive against paint and seals
- ✔ Repels water and prevents from potential damages due to humidity
- ✔ Can be used in many applications: chains, hinges, high temperature (up to 280 °C) and low temperature (-50 °C)

Performance X3

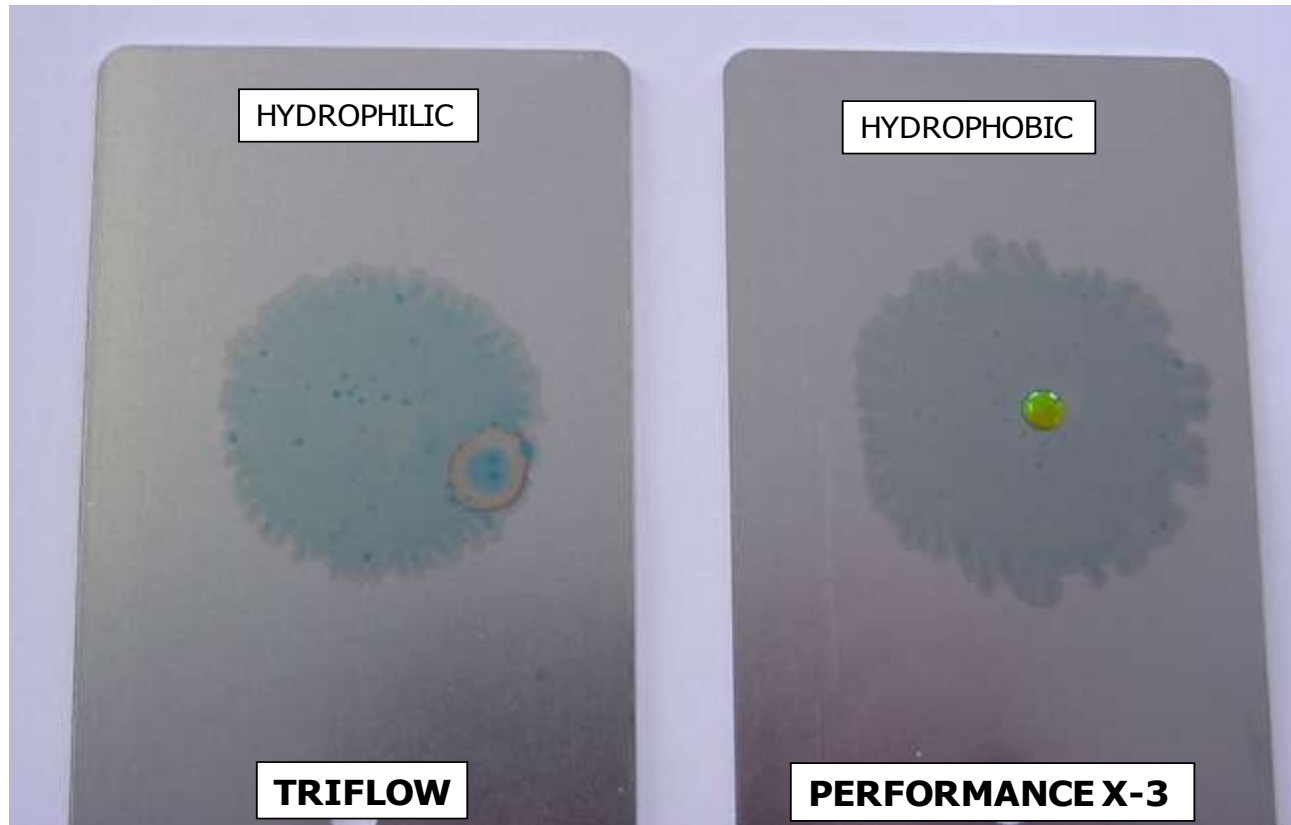
Unique product = Unique characteristics



	NORM	PERFORMANCE X3	
P H I S Y C A L	Colour	Pale yellow	
	Aspect	Milky	
	Odour	None	
	Flash Point closed cup (°C)	ASTM D 93	74
	Density (kg/m ³)		850
	Cinematic viscosity (mm ² /sec) @ 40°C	NFT 60-100	12.5
	% Evaporation (20°C) + 24h		3
	% Evaporation (20°C) + 48h		5
	% Volatiles		15
	Dry extract 120°C / 1 hour (%)		67.9
	% Active Ingredients		85
	Temperature of use (° C)		-40 TO 280 °C
	Diffusion (20°C) (mm)		50
	Salt spray test	ASTM B117	216 hours
	Resistivity (k ohms at 25°C)	Ransburg Cell Type 234/13696	10,000
	Surface tension (mJ/m ² at 25°C)	NF ISO 304	21.7
	Sedimentation after 24 h (%)		0
	Test 4 balls extreme pressure (kg)	ASTM D 2783	400
	Test 4 balls wear (kg)	ASTM D 4172	0.5
	Static friction coefficient	Sliding angle test	0.20
Residues aspects after drying on metal and on rubber surface		colorless	
S A F E T Y	Legal labelling	2001/59/CE	None
	Labeling mentioned on the container	2001/59/CE	Phrase flammable product
	Flash Point closed cup (°C)	ASTM D 93	74

Performance X3

Hydrophobic characteristics



AFTER 3 HOURS OF CONTACT, THE COLOURED DROP OF WATER HAS TOTALLY BEEN DISSOLVED BY THE TRIFLOW INDICATING A HYDROPHILIC NATURE OF THE PRODUCT

Performance X3

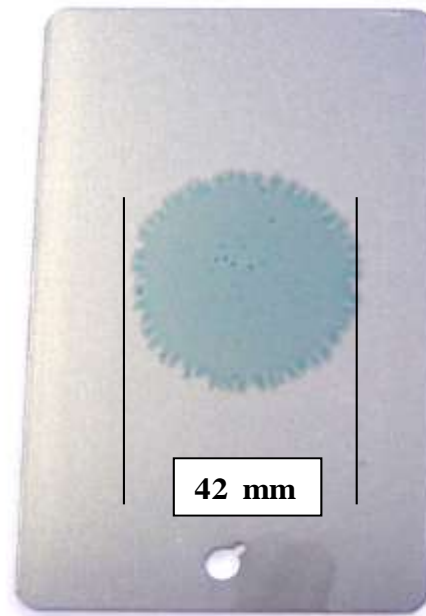
Diffusion



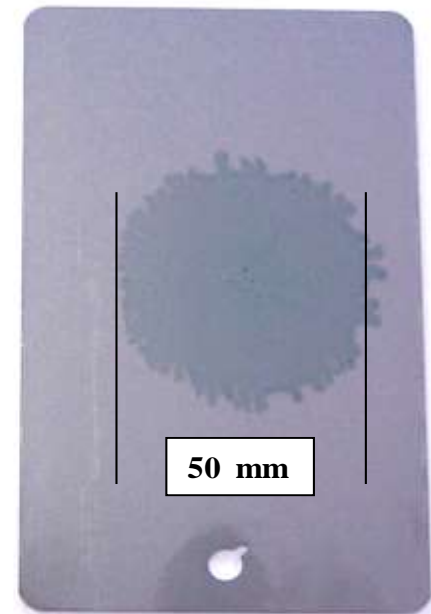
2 DIMENSIONAL DIFFUSION ON STEEL PLATE
1 HOUR @ 20 °C



**DROP SIZE
INITIAL**



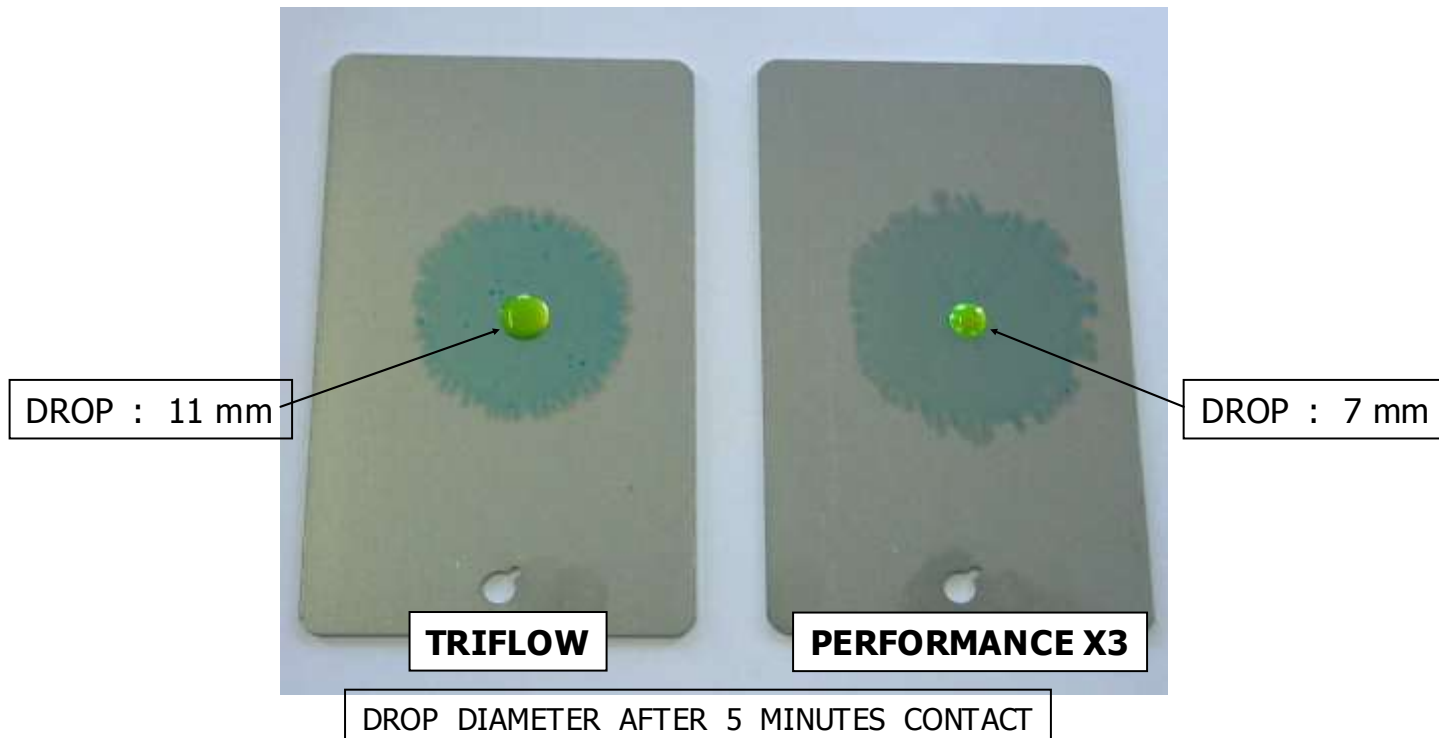
TRIFLOW



PERFORMANCE X3

Performance X3

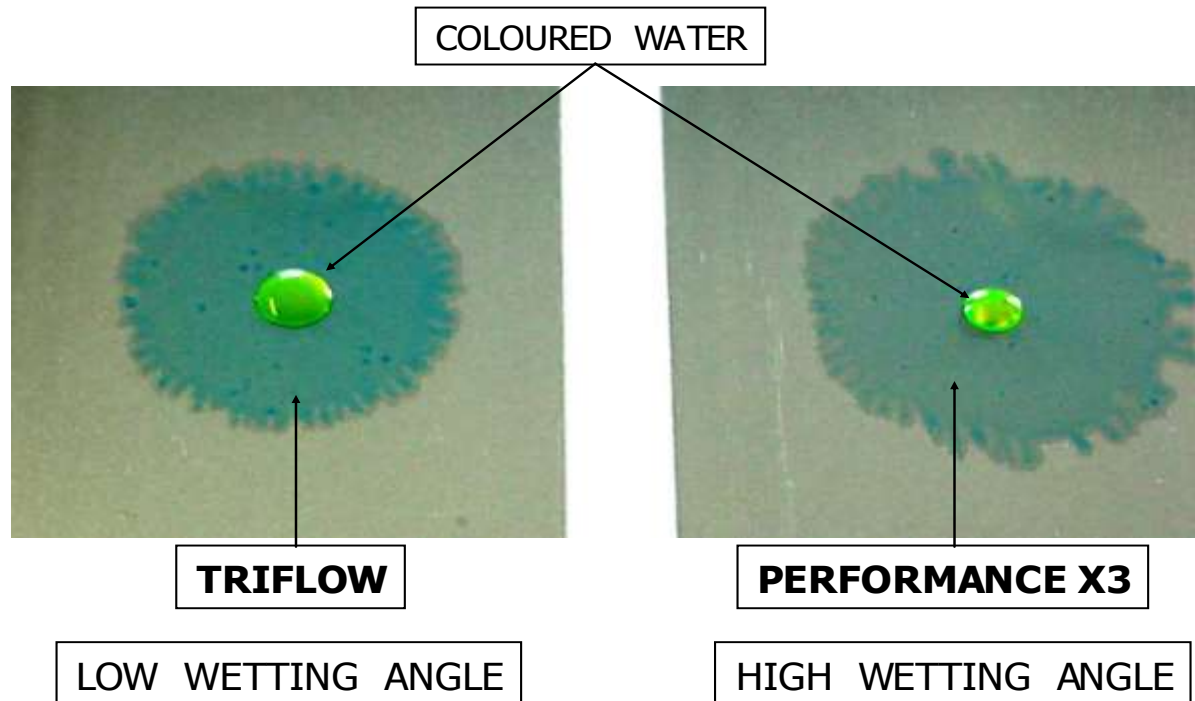
Water repellancy



A CALIBRATED DROP OF COLOURED WATER IS PLACED ON THE SURFACE COATED WITH LUBRICANT ; THE SMALLER THE DIAMETER OF THE DROP, THE HIGHER THE WATER REPELLANCY OR HYDROPHOBICITY

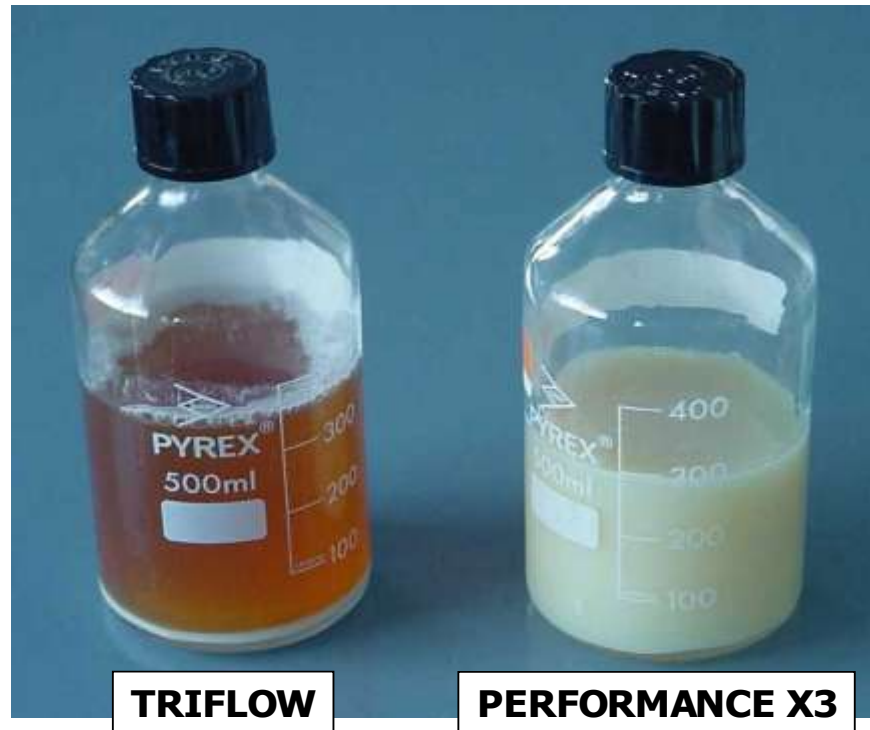
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Surface wetting



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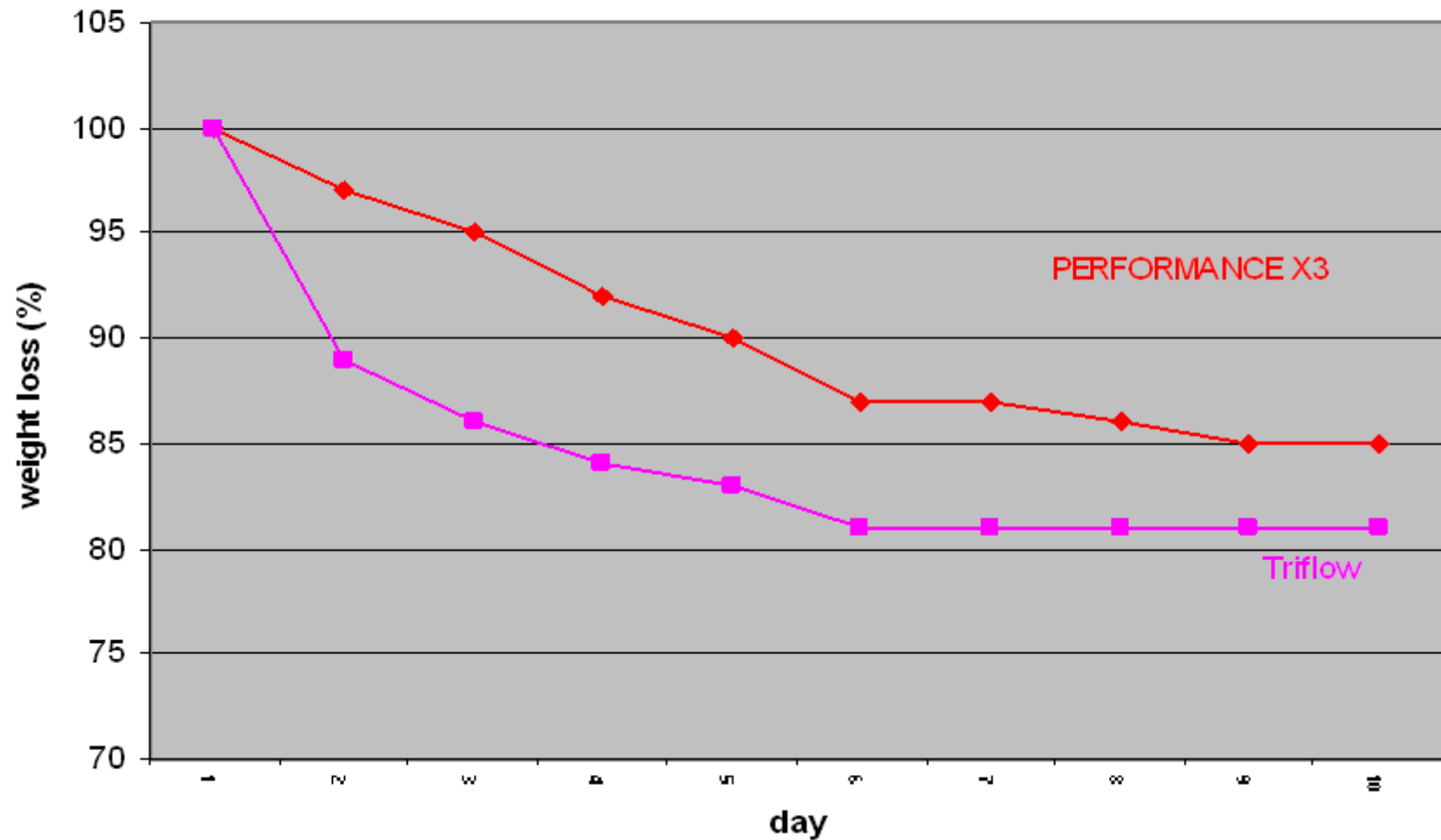
Storage stability



STORAGE 24 HOURS ROOM TEMPERATURE

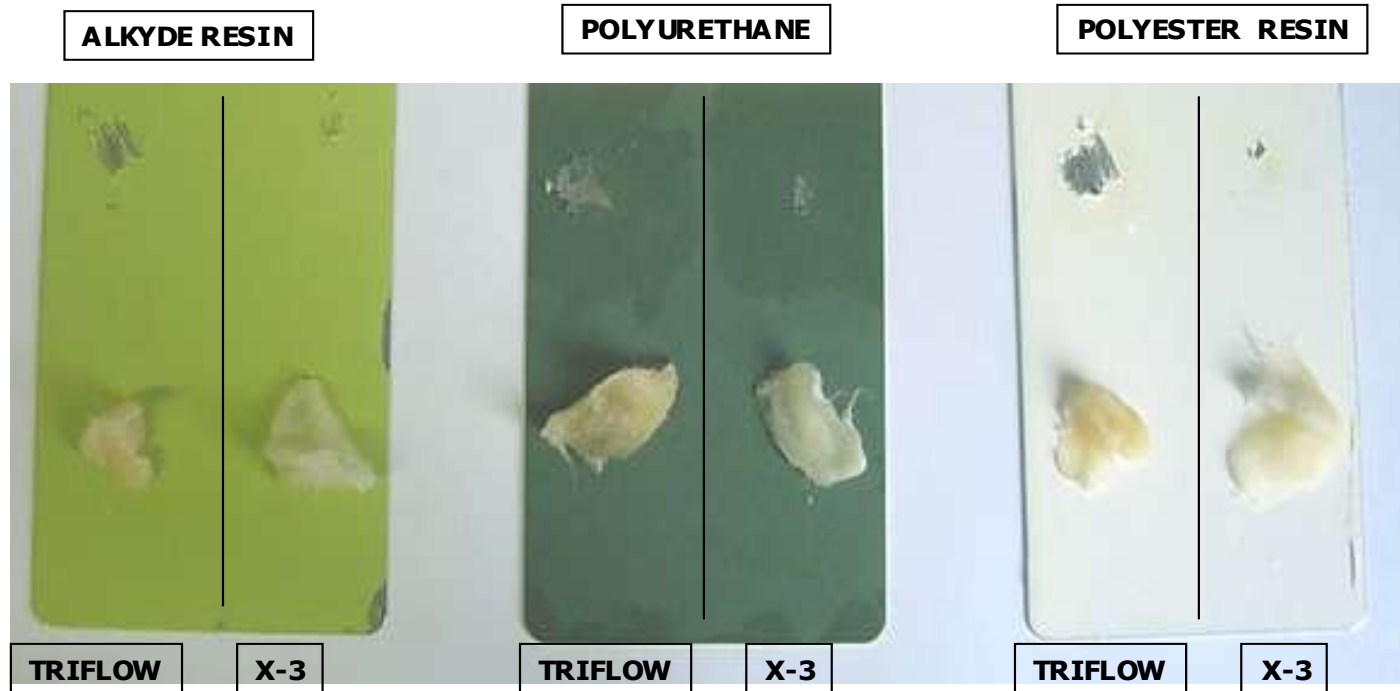
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% Volatile components



Performance X3

Agressivity against paint



Wool impregnated with triflow or Performance X3, allowed to rest on painted surface for 12 hours at room temperature. The area is then scratched to observe the film resistance.

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Cleaning of oxidised surfaces



INITIAL ASPECT



TRIFLOW

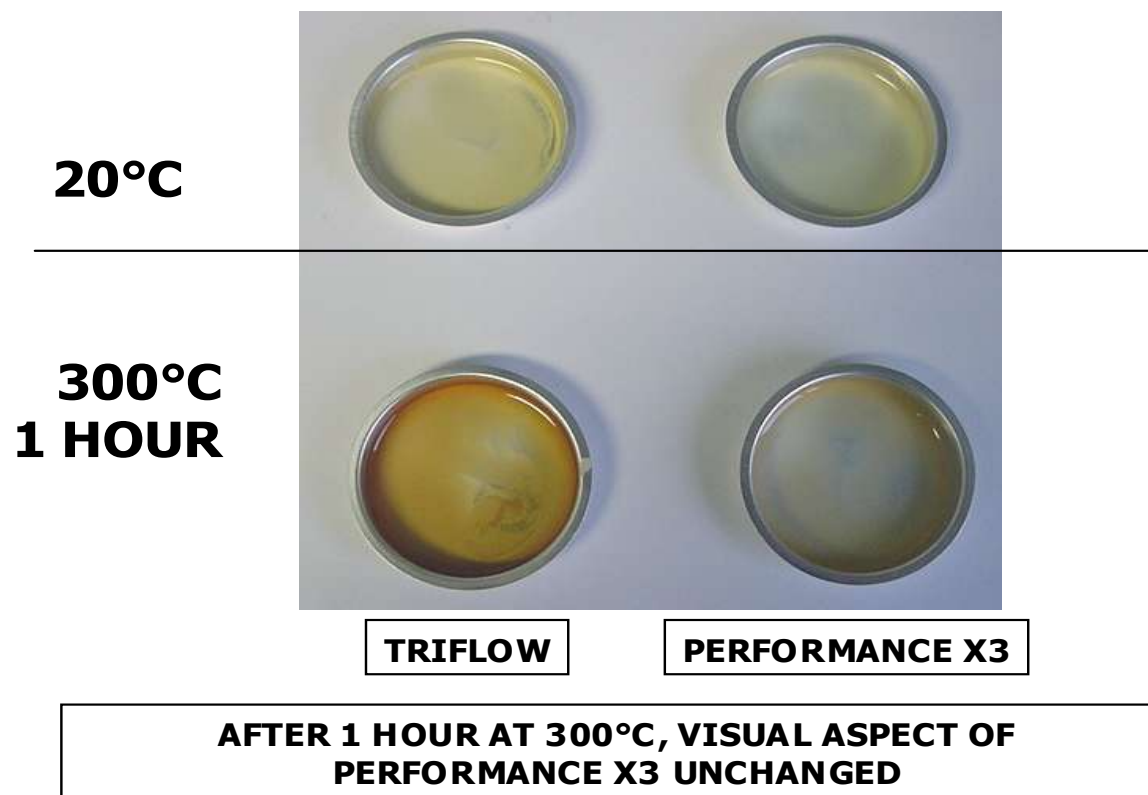


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Surface aspect after 4 seconds lubricant spray on a highly oxidised steel surface

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Thermal stability



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Cleaning properties vs grease



INITIAL STATE



TRIFLOW



PERFORMANCE X3

SURFACE ASPECT AFTER 4 SECONDS SPRAY ON GREASY RESIDUES

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Comparison Triflow vs X3



P H Y S I C A L	Odour		None	Strong Ester
	Flash Point closed cup (°C)	ASTM D 93	74	52
	Density (kg/m ³)		850	866
	Cinematic viscosity (mm ² /sec) @ 40°C	NFT 60-100	12,5	9,0
	% Evaporation (20°C) + 24h		3	11
	% Evaporation (20°C) + 48h		5	14
	% Volatiles		15	19
	Dry extract 120°C / 1 hour (%)		67,9	68,9
	% Active Ingredients		85	81
	Temperature of use (°C)		-40 TO 280 °C	-53 TO 246 °C
	Diffusion (20°C) (mm)		50	42
	Salt spray test	ASTM B117	216 hours	100 hours
	Resistivity (k ohms at 25°C)	Ransburg Cell Type 234/13696	10.000	1200
	Surface tension (mJ/m ² at 25°C)	NF ISO 304	21,7	33,3
	Sedimentation after 24 h (%)		0	100
	Test 4 balls extreme pressure (kg)	ASTM D 2783	400	340
Test 4 balls wear (kg)	ASTM D 4172	0,5	0,4	
Static friction coefficient	Sliding angle test	0,20	0,20	
Residues aspects after drying on metal and on rubber surface		colorless	colorless	
S A F E T Y	Legal labelling	2001/59/CE	None	Symbole N, R10, 51/53, 66
	Labeling mentioned on the container	2001/59/CE	Phrase flammable product	Phrase flammable product
	Flash Point closed cup (°C)	ASTM D 93	74	52

Performance X3

What it is not!



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What it is!

