



TOUGHIN[®]AL

STATIONARY ENGINE COOLANTS

Built for Maximum Durability and Protection

ToughinAL[®] Heavy Duty Stationary Engine Coolants are specially formulated for the demanding requirements of stationary engines. This glycol-based line of thermal products is fortified with a superior state-of-the-art inhibitor and dispersant package that protects against premature corrosion and metal cavitation and enhances fluid durability and equipment life. ToughinAL[®] was chosen by customers over heavy-duty pre-charge because it has significantly less inhibitor loss and a lower cost of ownership.

Over a three month study of ToughinAL[®] versus HD PC, utilizing a CAT 3520 at 230° F in continuous operation, ToughinAL[®] met ASTM D6210 chemical requirements post-study.

Cost of Ownership

	Standard HD PC Coolant	ToughinAL [®] EG HD	ToughinAL [®] EG N	ToughinAL [®] EG NF
Total Cost (%)	Base	-45%	-63%	-70%

ToughinAL[®] EG HD

- Formulated with virgin ethylene glycol for superior heat transfer capabilities and more efficient freeze protection
- Hybrid technology
- Proven heavy duty protection: 63% less inhibitor loss compared to conventional heavy duty coolant
- Works in most heavy duty applications
- Ideal for use in applications using CAT NGEC/DEAC and most other stationary engine coolant OEMs
- Maintain using ToughinAL SCA

ToughinAL[®] EG N

- Formulated with virgin ethylene glycol for superior heat transfer capabilities and more efficient freeze protection
- Proven heavy duty protection: meets or exceeds ASTM D6210 requirements
- Nitrited OAT technology provides extended service life
- Molybdate extends heavy duty cavitation protection beyond that of a conventional technology coolant
- Ideal for CAT EC-1, GE Waukesha, Agco/Massey Ferguson, MWM Deutz, and MTU. Works in most heavy duty applications
- Maintain using ToughinAL Extender N

ToughinAL[®] EG NF

- Formulated with virgin ethylene glycol for superior heat transfer capabilities and more efficient freeze protection
- Proven heavy duty protection: meets or exceeds ASTM D6210 requirements
- More forgiving in harsh environments: nitrite-free organic acid technology for better resistance to high heat applications and extended life protection
- Molybdate extends heavy duty cavitation protection beyond that of a conventional technology coolant
- State-of-the-art technology for modern heavy duty engines
- Ideal for GE Jenbacher, MAN, MWM Deutz, and MTU

ToughinAL[®] PG

- Formulated with virgin propylene glycol for superior heat transfer capabilities and more efficient freeze protection
- Proven heavy duty protection: meets or exceeds ASTM D6210 requirements
- Recommended for customers requiring the lower toxicity of a PG-based coolant
- Works in most heavy duty applications



ToughinAL® Stationary Engine Coolants

ToughinAL® Stationary Engine Coolants are used in these applications:

Stationary Engines
Line Heaters
Natural Gas Well Head Heaters
LNG Vaporizers
Oil Refineries
Power Generating
Chemical Manufacturers
Combustion Air Pre-Heaters
Marine Engines
Standby Generators
Drilling Equipment
Compressor Engines
Process Heating and Cooling
Solar and Radiant Heating Systems

ToughinAL® Stationary Engine Coolants can be used in these systems*:

Agco	John Deere
Ajax	Kubota
Caterpillar	MAN
Cooper Bessemer	Mercedes
Cummins	MTU
Deutz	MWM
Dresser-Rand	Navistar
Enterprise	Siemens
Fendt	Superior
Guascor	Volvo/Mack
International	Waukesha
Jenbacher	

**Contact your sales representative for more information regarding specific specifications or OEMs that are not listed.*

ToughinAL® Stationary Engine Coolant				
Typical Properties	EG HD 50/50	EG N 50/50	EG NF 50/50	PG 50/50
Color	Teal	Red	Red	Yellow
Glycol	Ethylene Glycol	Ethylene Glycol	Ethylene Glycol	Propylene Glycol
Specific Gravity @ 68°F	1.084	1.078	1.080	1.043
pH	8.0-8.8	8.2 - 9.0	8.2 - 9.0	10.2 - 10.8
Reserve Alkalinity, ml	5.0 Min	1.8 Typical	3.0 Min	2.2 Min
Freeze Point, F° (C°)	-34(-37) Max	-34(-37) Max	-34(-37) Max	-24(-31) Max
Service Check Interval, Hrs.	3,000	6,000	6,000	500
ToughinAL® Stationary Engine Coolant				
Helpful Shipping Information	EG HD 50/50	EG N 50/50	EG NF 50/50	PG 50/50
Steel Drums Qty	55 Gallons	55 Gallons	55 Gallons	55 Gallons
Package Dimensions	23.5" x 34.5"	23.5" x 34.5"	23.5" x 34.5"	23.5" x 34.5"
Gross Container Weight	≈532 Pounds	≈530 Pounds	≈533 Pounds	≈505 Pounds
Gross Weight on Pallet	≈2191 Pounds	≈2183 Pounds	≈2196 Pounds	≈2081 Pounds
Quantity Per Pallet	4	4	4	4
Pallet Dimensions	48" x 48" x 39.4"	48" x 48" x 39.4"	48" x 48" x 39.4"	48" x 48" x 39.4"
Dilution	50/50	50/50	50/50	50/50

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ToughinAL® Stationary Engine Coolant Products Available

Product Name	Dilution	Size	Part Number	UPC Code
Toughinal EG HD	50/50	Bulk	10094	N/A
Toughinal EG HD	50/50	Tote	10093	652138101007
Toughinal EG HD	50/50	Drum	12173	652138100994
ToughinAL EG N	50/50	Bulk	12116	N/A
ToughinAL EG N	50/50	Tote	12118	652138104213
ToughinAL EG N	50/50	Drum	12117	652138104206
Toughinal EG NF	50/50	Bulk	10091	N/A
ToughinAL EG NF	50/50	Tote	11593	652138100987
Toughinal EG NF	50/50	Drum	10092	652138101021
Toughinal PG	50/50	Bulk	10088	N/A
Toughinal PG	50/50	Tote	12203	652138104268
Toughinal PG	50/50	Drum	12202	652138104275
ToughinAL SCA	RTU	Pail	Coming Soon	
ToughinAL Extender N	RTU	Pail	Coming Soon	



1-800-661-9391 | kostusa.com



Our products are cool...Our people are warm.