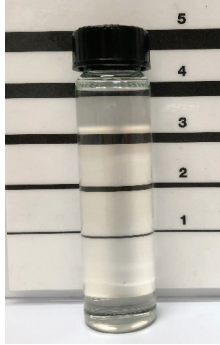


Magellan Gasoline Detergents



Keropur® Fuel Performance Packages

Premium Performance

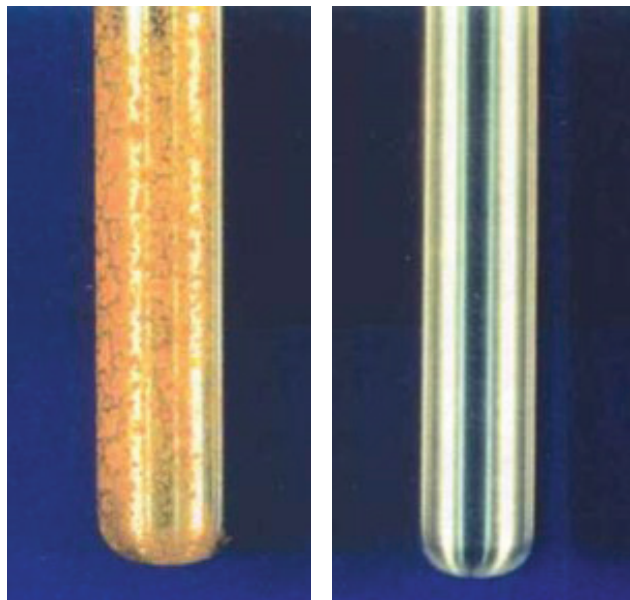


- ✓ Excellent detergency
- ✓ Formulated to eliminate valve stick
- ✓ Chlorine free process
- ✓ Unique water white appearance
- ✓ No incompatibility, stability, or issues with ethanol blended fuels
- ✓ Scalability (same product for LAC, TOP TIER, and clean up)
- ✓ High Potency PIBA with polyether synthetic carrier
- ✓ Excellent PFI, IVD, GDI, and CCD performance

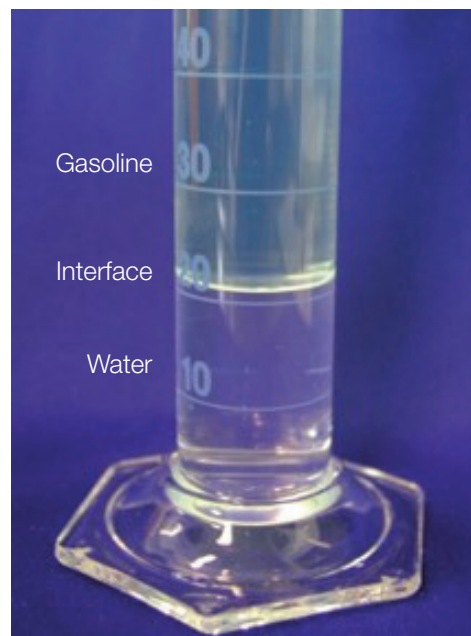
Keropur® AP 205-20 Scalability

Keropur® AP 205 Treat Rate:	24.0 ptb	58.0 ptb	58.8 ptb	70.0 ptb	90.0 ptb
Keep fuel injectors and IVDs clean (ASTM D5500, ASTM D6201, ASTM 5598)	✓	✓	✓	✓	✓
Corrosion protection (NACE TM0172-93)	✓	✓	✓	✓	✓
Reduce emissions / optimize fuel economy (FTP clean up emissions test, HWFET clean up emissions test)				✓	✓
Improved vehicle performance (Driveability test via SAE 872117)				✓	✓
Quicker and easier starting				✓	✓
Less hesitation and smoother acceleration				✓	✓
Clean up GDI injectors					✓
Clean up IVDs					✓

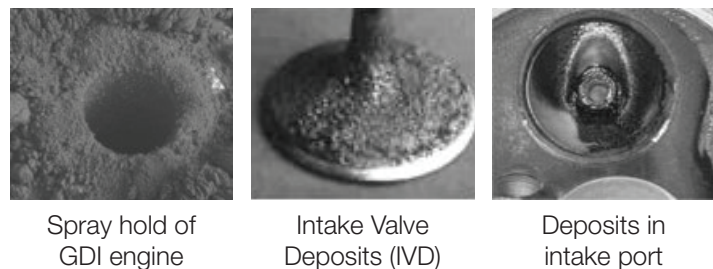
Keropur® effectively protects against steel corrosion
 (approved for blends containing up to 25% Vol% of ethanol)
 without Keropur® with Keropur®



Keropur® packages are designed to guarantee no impact or even improve phase separation



Even modern fuel blends can form intake system deposits

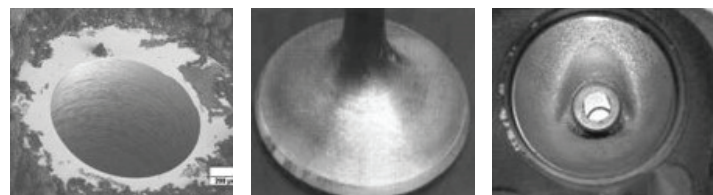


Spray hold of GDI engine

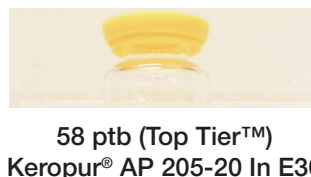
Intake Valve Deposits (IVD)

Deposits in intake port

Keropur® protects against intake system deposits



Keropur® packages are stable in Ethanol blends



58 ptb (Top Tier™)
 Keropur® AP 205-20 In E30



116 ptb (2X Top Tier™)
 Keropur® AP 205-20 In E30



PASS



PASS

BASF Corporation, 2019. Florham Park, NJ.

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