



CITGO® HyDurance® AW CP Fluid

OVERVIEW



- A premium multi-grade, anti-wear hydraulic fluid designed for applications where dielectric (insulating) properties are required.
- Offers wide temperature range service in mobile hydraulic equipment, particularly in low-temperature conditions where excellent cold startup hydraulic system performance is required.

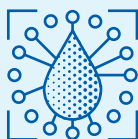
FEATURES & BENEFITS



- Provides excellent service in equipment used under a wide range of operating conditions and where hydraulic system response is critical.
- High dielectric strength.
- Superior low-temperature flow and pumpability.
- Fluid film strength for warmer climates.
- Excellent anti-wear properties.
- Foam-resistant and separates water readily.
- Protects against rust and corrosion.
- Long service life.
- Excellent viscosity shear stability.



APPLICATIONS



- Recommended for most outdoor and/or mobile hydraulic equipment requiring a fluid with high dielectric strength properties such as cherry picker lift applications, including:
 - Tree trimming, fruit picking mobile equipment
 - Firefighting lift trucks, buckets, etc.
 - Aerial lift buckets
 - Mobile hydraulic systems
 - Garbage collection equipment
 - Public utility vehicles
 - Construction equipment in colder services
- Meets or exceeds the following:
 - Dielectric Strength, ASTM D877, 35 KV minimum
 - ASTM D6158 HV
 - Parker Denison HF-0
 - DIN 51524-2
 - Eaton E-FDGN-TB002-E
 - General Motors LS-2
 - AFNOR NF E 48-603 HV
 - ISO 11158 HV
 - SEB 181 222
 - JCMAS HK P041

- **DIELECTRIC STRENGTH RATED**
- **WIDE TEMPERATURE PERFORMANCE**

PROPERTIES**Typical Properties for CITGO HyDurance AW CP Fluid:**

Material Code	633623001
Gravity, ASTM D4052, °API	32.2
Density, lb/gal	7.21
Flash Point, COC, ASTM D92, °F (°C)	383 (195)
Visual Color	Blue-green
Viscosity, ASTM D2983	
cP at -40°C	11,850
cP at -23°C	1,650
cP at -18°C	1,036
Viscosity, ASTM D445	
cSt at 40°C	28.1
cSt at 100°C	5.6
Viscosity Index, ASTM D2270	145
Pour Point, ASTM D97, °F (°C)	-51 (-46)
Oxidation Test, ASTM D943, hrs	4000
Rust Test, ASTM D665, A and B	Pass
Water Separability, ASTM D1401 at 54°C	40-40-0
Dielectric Strength, ASTM D877, KV	35

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Dielectric strength is extremely sensitive to humidity and contamination. Once the containers are opened, the dielectric strength cannot be expected to remain at its original value. Containers should be kept tightly sealed and stored in a dry environment. Dielectric strength rating shown in the above Typical Properties table does not apply to bulk shipments and is only applicable to containers packaged at CITGO packaging facilities.