



## Pyroplex

### PYROPLEX PROTECTION ES

#### Description

Castrol Pyroplex Protection ES is specially formulated synthetic lithium complex grease designed for extended service performance in challenging on-highway environments. Its unique inhibitor additive system provides maximum protection against rust, oxidation and corrosion. When performance is challenged in severe corrosive environments, Castrol Pyroplex Protection ES not only resists rust and corrosion, but provides unmatched protection for moving parts, reducing component wear and promoting longer equipment and lubricant life. Its inherent flow properties across wide temperature ranges make Pyroplex Protection ES ideal for automatic lubrication systems on mobile equipment. Castrol Pyroplex Protection ES is an extension of Castrol's exclusive hydro-activation technology coupled with a lithium complex thickener, tackifiers, corrosion inhibitors, proprietary additives and carefully selected synthetic base fluids, that provide corrosion resistance, extreme pressure performance, and "stay-in-place" ability with outstanding mobility through all seasons.

#### Advantages

Castrol Pyroplex Protection ES delivers:

- Extended service protection for On Highway applications.
- Full Synthetic providing excellent low and high temperature performance.
- Exceptional pumpability where in most climates the NLGI #2 can be used year round.
- Oxidation minimized through excellent thermal stability. Noted load carrying ability.
- Maximum protection against rust, oxidation and corrosion in extreme environments.
- Exclusive hydroactivation technology for increased tack in wet environments.
- Extreme pressure and anti-wear performance.
- High dropping point
- GC-LB certified

Castrol Pyroplex Protection ES environmental impact is reduced through the elimination of Antimony, Barium, Lead, or Chlorinated Compounds.

#### Industry Specifications and OEM Approvals by Grade

Exceeds GC-LB

# Typical Characteristics

Name	Method	Units	pyroplex protection ES	pyroplex protection ES 2
NLGI Grade			1	2
Penetration, worked @77F	ASTM D217		325	280
Thickener - Type			Lithium Complex	Lithium Complex
Colour			Light Purple	Light Purple
Appearance			Smooth-Tacky	Smooth-Tacky
Dropping Point, F	D2265		550	550
Four Ball EP Properties, Weld Point (Kg)	D2596		400	400
Four Ball Wear Scar,mm	D2266		0.5	0.4
Timken OK Load	D2509		50	50
Mobility-G/Min., 60F	USS		550	475
Mobility-G/Min., 40F			296	146
Mobility-G/Min., 20F			74	25
Mobility-G/Min., 0F			10	3
Water Wash Out, %	D1264		10	3
Base Oil Viscosity, SSU@100F	D445		1480	1480
Base Oil Viscosity, SSU@210F	D445		144	144
Base Oil Viscosity, cSt@40C	D445		320	320
Base Oil Viscosity, cSt@100C	D445		30	40
Rust Prevention	D1743		Pass	Pass
Wheeling Bearing Life, hrs	D3527		160	160
Wheel Bearing Leakage, g	D4290		3	1.5
Oxidation Test @ 210C, min	D5483		30	35
Copper Corrosion	ASTM D4048		1B	1A
Emcor Corrosion	D6138			
5%NaCl, 7 days			0.0	0.0

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