

Calcium Sulfonate Complex Grease

Features and benefits

DAYAN CAS-PLEX SERIES are based on a unique calcium-complex sulfonate thickener containing premium petroleum base oils with select additives for extreme pressure characteristics. Greases using calcium sulfonate thickeners have inherent anti-oxidant and rust-inhibiting properties, along with high dropping points and extreme pressure (EP) /anti-wear characteristics. The use of this complex thickener offers advantages over other organic grease thickeners such as polyurea. It also works better than inorganics like aluminium bentonites or fumed silica.

Features and benefits

- Exceptional water resistance - the film coating stays on the surface in the presence of water - including hot and chemically active process waters.
- Advanced EP and anti-wear properties - protects equipment against extreme loading and helps minimize bearing wear.
- Superior mechanical stability - helps reduce product consumption in high volume applications.
- High dropping point - withstands breakdown in high temperature applications.
- Resists oxidation and prevents corrosive activity on bearings in aggressive process water environments
- Suitable for applications utilizing both ferrous or non-ferrous metallurgies

Application

- Plain / journal or anti-friction bearings in applications operating under extreme environmental conditions such as in rolling mills and continuous casters in steel mill plants, and in forming and press section in paper mills.
- Low speed highly loaded coupling systems used extensively in metal rolling mill applications and in high horsepower transmitting such as in curved tooth couplings.
- Applications where resistance to aggressive process waters and protection against corrosive environments is highly demanded.

Storage and Handling

Proper standards of storage and handling are necessary with all lubricants, and are particularly vital with greases. Packages should be treated with care at all stage, to prevent contamination of their contents and damage to containers. All packages should be stored indoors; where outside storage is unavoidable, they should be covered to avoid the possible ingress of water and the consequent obliteration of painted markings. Greases should not be exposed to extremes of temperature nor to direct hot sunlight.

The DAYAN trademark is registered and protected in Iran.

Technical Data

Test	Units	Method	CAS-PLEX 1	CAS-PLEX 1.5	CAS-PLEX 2
NLGI Consistency	-	-	1	1.5	2
Soap Type	-	-	Calcium Sulfonate Complex	Calcium Sulfonate Complex	Calcium Sulfonate Complex
Base Oil	-	-	Mineral	Mineral	Mineral
Kinematic Viscosity at 40°C	cSt	ASTM D445	460	460	460
Cone Penetration, Worked	0.1mm	ASTM D217	310-340	295-310	265-295
Dropping Point	°C	ASTM D566	>300	>300	>300
(4-ball)welding point	Kgf	ASTM D2596	500	500	500
Water Washout @ 75 °C	%wt	ASTM D1264	<1.5	<1.5	<1.5
Operating temperature range	°C	-	-25 to 180	-25 to 180	-25 to 180

Note:

1- The Typical characteristics are given as a guide only and may vary according to latest production according to ISO.