

## ULTRAPLEX CS (RANGE)

### CALCIUM SULPHONATE GREASE

#### DESCRIPTION

Greases made of high viscosity mineral base oil thickened with calcium sulphonate. The special characteristics of this complex thickener yield excellent anticorrosive and extreme-pressure properties.

#### APPLICATIONS

They are specially indicated for lubrication of bearings, open gears, gearboxes, gear couplings, wire ropes and other mechanical components under **heavy loads** working in **adverse environmental conditions**. ULTRAPLEX CS 1 and CS 12 are specially suitable for central lubrication systems.

Due to their special properties they give high protection of the mechanisms in all type of industries: mining, earth movement, shipping and harbor, steel, cement, automotive, paper, food, pellet presses, etc.

#### PROPERTIES

- Outstanding load carrying capacity to avoid component wear.
- Excellent protection to the corrosion of the metallic parts and resistance to water washout
- High mechanical stability to assure grease permanence in the component even under severe operating conditions.
- Extraordinary adherence that assure protection of mechanisms under high loads and water presence.
- Working temperature from -20 up to +150°C (180°C with suitable relubrication interval).
- High resistance to aging.
- Suitable consistency for good pumpability in central lubrication systems (CS 1 and CS 12).

#### QUALITY LEVEL

- ISO – L – XBEIB 1 - 1/2 - 2

#### TECHNICAL CHARACTERISTICS

	Method	Typical values			Units
		CS 1	CS 12	CS 2	
Appearance	-	Dark amber grease			-
Penetration at 25°C	ASTM D-217	330	305	285	mm x 10 <sup>-1</sup>
Penetration at 25 °C after 10 <sup>4</sup> strokes	ASTM D-217	343	316	296	mm x 10 <sup>-1</sup>
Consistency NLGI	ISO 2137	1	1-2	2	-
Dropping point	ASTM D-566	> 300	> 300	> 300	°C
Base oil viscosity at 40°C	ASTM D-445	460	460	460	mm <sup>2</sup> /s
Wear scar, 4 ball test	ASTM D-2266	0,45	0,39	0,32	mm
Welding load, 4 ball test	ASTM D-2596	500	500	500	Kg
Water spray off, grease lost	ASTM D 4049	18	15	11	%
Water washout	ASTM D 1264	-	-	2,55	%
Salt spray test	ASTM B-117	>1000	>1000	>1000	hours
Corrosion protection	ASTM D-1743	Pass	Pass	Pass	-
Copper corrosion 24h a 100°C	ASTM D 4048	1a	1a	1a	-

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