



## Magna BD 68, CF 220 & GC 32

Slideway oils

### Description

Castrol Magna™ GC 32, BD 68 and CF 220 are specially formulated slideway lubricants to provide all-round performance with good stick-slip and load carrying performance. They combine controlled frictional characteristics with high film-strength and high load carrying properties to eliminate 'stick-slip'.

### Application

Magna GC 32 is a light viscosity, combined hydraulic and slideway lubricant. Applications include lightly loaded slideways such as found on small centre lathes and combined hydraulic and slideway systems such as in reciprocating grinding machines.

Magna BD 68 is a medium viscosity slideway lubricant suitable for use in most machine tool lubrication systems specifying an ISO VG 68 oil. It meets Cincinnati Milacron P47 specification.

Magna CF 220 is formulated for use with heavily loaded slideway applications or where there is a vertical or inclined slideway. It meets Cincinnati Milacron P50 specification.

### Advantages

- Good lubricity – prevents stick-slip of slideways.
- High load carrying capacity – prevents wear of highly loaded slideways.
- Good demulsification and cutting fluid compatibility – can be used in the presence of water or water based metalworking fluids.

## Typical Characteristics

Name	Method	Units	Magna GC 32	Magna BD 68	Magna CF 220
Appearance	Visual	-	bright & Clear	bright & Clear- tacky	bright & Clear- tacky
ISO viscosity grade	-	-	32	68	220
Density @ 20C	ASTM D4052	g/ml	0.8694	0.879	0.8943
Viscosity, Kinematic 100C	ASTM D445	mm <sup>2</sup> /s	5.3	8.7	19.2
Viscosity, Kinematic 40C	ASTM D445	mm <sup>2</sup> /s	32	68	220
Viscosity Index	ASTM D2270	None	96	99	98
Pour point	ISO 3016 / ASTM D97	°C	-15	-12	-9
Flash Point, COC	ISO 2592 / ASTM D92	°C	206	232	249
Rust Test (Distilled Water)	ISO 7210 / ASTM D665B	-	Pass	Pass	Pass
Rust Test (Synthetic Sea Water)	ISO 7210 / ASTM D665B	-	Pass	Pass	Pass
Copper corrosion (3 hrs @ 100°C)	ISO 2160 / ASTM D130	-	1b	1b	1b
Four ball wear test (40 kg, 75°C, 1800 rpm, 1 hr), scar diameter	ASTM D2266	mm	-	0.42	0.42
Stick-slip ratio	Cincinnati Lamb	-	-	0.74	0.74
Cincinnati Lamb specification			-	P-47	P-50

Subject to usual manufacturing tolerances.

## Storage

All packages should be stored under cover. Where outside storage is unavoidable drums should be laid horizontally to avoid the possible ingress of water and damage to drum markings. Products should not be stored above 60°C, exposed to hot sun or freezing condition.

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