

## Brake System - General Information -

### Lubricants, Fluids, Sealers and Adhesives



**CAUTION:** Do not use brake fluid ITT Super Dot 4 on 2006my vehicles onwards. Failure to follow this instruction may result in damage to the vehicle.

- NOTE: Brake fluid ITT Super Dot 4 has now been superseded by Shell ESL Super Dot 4 which is the Jaguar recommended brake fluid. Shell ESL Super Dot 4 can be used on all model years.

Item	Specification
Brake fluid	ITT Super Dot 4
Brake fluid	Shell ESL Super Dot 4

### Brake Lining and Disc Specifications

Item	Specification
Brake pad material nominal thickness - front - Vehicles with 2.5L, 2.7L Diesel, 3.0L or 4.2L engine	10.75 mm (0.42 in)
Brake pad material minimum thickness - front - Vehicles with 2.5L, 2.7L Diesel, 3.0L or 4.2L engine	2 mm (0.08 in)
Brake pad material nominal thickness - front - Vehicles with high performance brakes	10.30 mm (0.41 in)
Brake pad material minimum thickness - front - Vehicles with high performance brakes	2 mm (0.08 in)
Brake pad material nominal thickness - rear - Vehicles with 2.5L, 2.7L Diesel, 3.0L or 4.2L engine	10.95 mm (0.43 in)
Brake pad material minimum thickness - rear - Vehicles with 2.5L, 2.7L Diesel, 3.0L or 4.2L engine	2 mm (0.08 in)
Brake pad material nominal thickness - rear - Vehicles with high performance brakes	8.90 mm (0.35 in)
Brake pad material minimum thickness - rear - Vehicles with high performance brakes	2 mm (0.08 in)
Brake pad material nominal thickness - parking brake pads - Vehicles with high performance brakes	5.50 mm (0.21 in)
Brake pad material minimum thickness - parking brake pads - Vehicles with high performance brakes	1 mm (0.04 in)
Front brake disc diameter - Vehicles with 2.5L, 2.7L Diesel, 3.0L engine fitted with standard suspension components and vehicles with 4.2L engine USA and Canada	300 mm (12 in)
Front brake disc diameter - Vehicles with 2.5L, 2.7L Diesel, 3.0L, 4.2L engine fitted with sport suspension components and vehicles with 4.2L engine Rest of world	320 mm (12.8 in)
Front brake disc diameter - Vehicles with high performance brakes	365 mm (14.6 in)
New front Brake disc nominal thickness - Vehicles with 2.5L, 2.7L Diesel, 3.0L or 4.2L engine	30 mm (1.2 in)
New front brake disc nominal thickness - Vehicles with high performance brakes	32 mm (1.28 in)
Worn brake disc discard thickness - Vehicles with 2.5L, 2.7L Diesel, 3.0L engine fitted with standard suspension components and vehicles with 4.2L engine USA and Canada	28 mm (1.10 in)
Worn brake disc discard thickness - Vehicles with 2.5L, 2.7L Diesel, 3.0L, 4.2L engine fitted with sport suspension components and vehicles with 4.2L engine Rest of world	28.4 mm (1.12 in)
Worn front brake disc discard thickness - Vehicles with high performance brakes	30 mm (1.2 in)
Rear brake disc diameter - Vehicles with 2.5L, 2.7L Diesel, 3.0L or 4.2L engine	288 mm (11.52 in)
Rear brake disc diameter - Vehicles with high performance brakes	330 mm (13.2 in)
New rear brake disc nominal thickness - Vehicles with 2.5L, 2.7L Diesel, 3.0L or 4.2L engine	20 mm (0.8 in)
New rear brake disc nominal thickness - Vehicles with high performance brakes	15 mm (0.6 in)
Worn rear brake disc minimum thickness - Vehicles with 2.5L, 2.7L Diesel, 3.0L or 4.2L engine	18.50 mm (0.73 in)
Worn rear brake disc minimum thickness - Vehicles with high performance brakes	13 mm (0.52 in)
Maximum front and rear brake disc runout (installed) - Vehicles with 2.5L, 2.7L Diesel, 3.0L or 4.2L engine	0.076 mm ( 0.003 in)
Maximum front brake disc runout (installed) - Vehicles with high performance brakes	0.076 mm ( 0.003 in)
Maximum rear brake disc runout (installed) - Vehicles with high performance brakes	0.076 mm ( 0.003 in)
Maximum front hub face runout (installed)	0.015 mm ( 0.006 in)
Maximum rear hub face runout (installed)	0.030 mm ( 0.012 in)
Front brake caliper piston diameter - twin piston - Vehicles with 2.5L, 2.7L Diesel, 3.0L or 4.2L engine	38 mm (1.52 in) and 45 mm (1.8 in)
Rear brake caliper piston diameter - Vehicles with 2.5L, 2.7L Diesel, 3.0L or 4.2L engine	43 mm (1.72 in)
Front brake caliper piston diameter - twin piston - Vehicles with high performance brakes	38 mm (1.52 in) and 44 mm (1.8 in)
Rear brake caliper piston diameter - twin piston - Vehicles with high performance brakes	28 mm (1.12 in) and 30 mm (1.2 in)