

ESD mould-on polyurethane wheels

Aluminium centre body

COVERING

Mould-on polyurethane, hardness 90 Shore A, dark grey, anti-trace. Electrical resistivity < 109 Ω.

WHEEL CENTRE BODY

Pressure die-cast aluminium.

ROLLING ACTION

Hub with shielded ball bearings. Ideal solution for heavy loads and continuous moving.

APPLICATIONS

Excellent rolling resistance and elasticity features, high wear and tearing resistance.

For selection parameters see Technical data (on page -).

RE.F5-ESD wheel are supplied also with bracket:

- RE.F5-N-ESD (see page -): wheel with steel sheet bracket to be used for light loads.
- RE.F5-H-ESD (see page -): wheels with steel sheet bracket to be used for medium-heavy loads.

ENVIRONMENTAL CONDITIONS

Suitable for use in environments with the presence of atmospheric agents, alcohols and glycols, use in environments with the presence of organic and mineral acids, basic solutions and saturated vapour is not recommended.

ROLLING RESISTANCE - FORCE / LOAD APPLIED

For each load and diameter, the table indicates the force (in N) needed to push or pull a single wheel at a constant speed of 4 km/h on smooth ground.

For manual handling of a 4-wheel trolley, it is recommended to choose diameters with values below 50 N; for frequent handling, choose values below 30 N.

MECHANICAL MOVING WITH TOWING DEVICES

For mechanical towing, please see the technical specifications to determine the capacity variation.

TEMPERATURE

If operating temperatures in an application differ from the standard range of values, please see the technical specifications to determine the capacity variation.

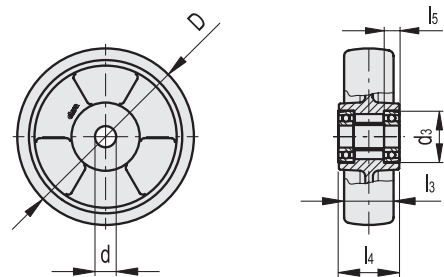
FEATURES AND APPLICATIONS

The special polyurethane with electrical resistivity < 10 9 Ω prevents the accumulation of electrostatic charge. RE.F5-ESD wheels are therefore suitable for applications in "ESD PROTECTED AREAS" where all components sensitive to electrostatic discharges must be treated with the minimum risk of damage.

The electrical specifications meet the requirements of the ISO 22878:2004 standard. The electrical resistivity values indicated have been measured in the temperature range 18-25°C (as per regulations). For environments with operating temperatures below 10°C, contact ELESA sales service.



		Traction force or thrust for wheel movement [N]					
		Load [N]					
		1500	2500	3500	4500	5500	6500
D [mm]	80	50	-	-	-	-	-
	100	23	52	-	-	-	-
	125	17	45	65	-	-	-
	150	12	38	60	70	80	-
	200	<10	30	49	60	78	90



Code	Description	D	d	d3	l3	l4	l5	Static load# [N]	Rolling resistance# [N]	Dynamic carrying capacity# [N]	⚖️
451501-ESD	RE.F5-080-RSL-ESD	80	12	28	25	30	8	2200	1500	1700	200
451506-ESD	RE.F5-100-RSL-ESD	100	12	32	30	40	10	2800	2250	2000	340
451511-ESD	RE.F5-125-RSL-ESD	125	12	32	35	40	10	4000	2800	3200	500
451516-ESD	RE.F5-150-RSL-ESD	150	20	47	40	50	14	6800	3300	4800	910
451521-ESD	RE.F5-200-A20-RSL-ESD	200	20	52	50	55	15	8000	3600	6800	1231

For static load, rolling resistance and dynamic carrying capacity see Technical data (on page -).