AMENDMENT NO. 2 APRIL 2024

TO

IS 9438 : 2018 PERFORMANCE REQUIREMENTS AND METHODS OF TESTS FOR WHEELS/RIMS FOR TRUCKS AND BUSES

(First Revision)

[*Page* 1, *clause* **1**, (*see also Amendment No.* 1)] — Insert the following at the end:

'This standard is not applicable to the wheels made for vintage cars.'

(*Page* 7, *Table* 1) — Substitute the following for the existing:

Table 1 Test Factors for Dynamic Cornering Fatigue Test and Minimum No. of Performance Cycles

(*Clause* A-1)

Sl No.		**Disc Wheel Description**					**Performance Requirements**
	Material	Bolt Circle Diameter mm	Rim Diameter Designation	Inset or Outset mm	Accelerated Test Factor S	Coefficient of Friction μ	Minimum No. of Cycles to be Completed
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
i)	Ferrous	Any bolt circle	12, 13, 14, 15	Inset below 100 and all outset	1.60		18 000
ii)	Ferrous	Any bolt circle	16 and above	Inset below100 and all outset	1.45		30 000
iii)	Ferrous	Any bolt circle	Any diameter	Inset 100 and above	1.10 1.30	0.7	60 000 40 000
iv)	Aluminum	Any bolt circle	16	All	1.35 1.63		250 000 80 000
v)	Aluminum	Any bolt circle	17.5 and larger	All inset or outset	1.35		250 000

Price Group 1

[*Page* 8, *Table* 2 (*see* also Amendment No. 1)] — Substitute the following for the existing:

Table 2 Test Factors for Dynamic Radial Fatigue Test, Loading Method and Minimum No. of Performance Cycles

(*Clauses* 5.2.2 *and* 5.2.4)

Sl No.	**Disc Wheel Description**					**Performance Requirements**
	Material	Bolt Circle Diameter mm	Rim Diameter Designation	Inset or Outset mm	Accelerated Test Factor[1)] S	Minimum No. of Cycles to be Completed
(1)	(2)	(3)	(4)	(5)	(6)	(7)
i)	Ferrous	Any bolt circle	12, 13, 14, 15, 16, 17 (5°drop centre rims and 5° semi drop centre rims)	All	2.2 1.8	500 000 1 000 000
ii)	Ferrous	Any bolt circle	15, 16, 17, 18, 20, 22, 24, 17.5, 19.5, 22.5, 24.5	All	2.0 1.9 1.8 1.7 1.6	500 000 600 000 700 000 850 000 1 000 000
iii)	Aluminum	Any bolt circle	16	All	2.8 2.0	100 000 1 000 000
iv)	Aluminum	Any bolt circle	17.5 and Larger	All	2.8 2.0	100 000 1 000 000

NOTE — [1)] Use load factor to achieve adequately life run the test.

(TED 07)

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