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V - TRANSPORT STOCK

VIII-TECHNICAL SPECIFICATIONS

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**TECHNICAL SPECIFICATION
FOR THE SUPPLY OF STEEL RINGS
FOR BUFFER SPRINGS**

REVISIONS

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Amendment		Amendment	
No.	Date	No.	Date

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1 - PURPOSE

The present technical specification governs the supply of steel rings for buffer springs.

All requirements governing the execution of the contract, especially those concerned with the application of paragraphs 2-3-1, 2-3-2, 2-3-3, 2-4, 2-5 and 4-2-2 of the present specification, must be stated on the purchase order or its appended documents.

1.1 - Classification

The rings are of 4 types (see Appendix) :

- closed exterior rings
- closed interior rings,
- open interior rings,
- interior half-rings.

1.1.1 - Condition of metal on delivery

The rings shall be delivered in hardened and tempered condition.

1.2 - List of reference documents

The following document is referred to in the present specifications :

- ISO Recommendation R 80

2 - CHARACTERISTICS

2.1 - Chemical characteristics

Two grades of steel may be used, the limit values for the various elements and impurities being indicated below in percentage form.

58 Cr V4 steel

0.57	≤	C	≤	0.62
0.15	≤	Si	≤	0.40
0.70	≤	Mn	≤	1.10
0.90	≤	Cr	≤	1.20
0.10	≤	V	≤	0.20
		S	≤	0.035
		P	≤	0.035

62 Si Cr 5 steel

0.55	≤	C	≤	0.65
1.00	≤	Si	≤	1.30
0.90	≤	Mn	≤	1.10
0.40	≤	Cr	≤	0.60
		S	≤	0.035
		P	≤	0.035

2.2 - Physical characteristics

2.2.1 - Appearance

The rings must be sound in all parts, on the surface as well as the interior and shall have no cracks, flaws, burrs, lack of metal, rolling laps or any other defects liable to impair their use.

Surfaces must be smoothed and carefully cleaned of rust.

2.3 - Mechanical characteristics

2.3.1 - Hardness of rings

The hardness of the rings must be within the tolerances specified in the drawing.