

LESJÖFORS

SUSPENSION SPRING QUALITY CERTIFICATE

REGULATION

European Commission (EU) No. 330/2010 of 20 April 2010

Suspension springs manufactured and supplied by Lesjöfors Fjädrar AB are classified as Parts of Matching Quality.

Spring calculation, material used, spring manufacturing, anti-corrosion surface treatment, quality and environment assurance are according to OE suspension spring branch standards.

NORMATIVE REFERENCES:

Spring calculation

EN 13906-1 Cylindrical helical springs made from round wire and bar - Calculation and design

EN ISO 2162-2 Presentation of data for cylindrical helical compression springs

Lesjöfors Fjäderhandbok 1990

Material

EN 10089:2002 Hot rolled steel for quenched and tempered springs technical delivery specifications.

EN 10270-2:2001 Oil hardened and tempered spring steel wire.

ASTM A401 Specification steel wire Chrome-Silicon alloy.

ASTM A229 Steel wire Oil tempered.

ASTM A689 Steel bars for springs

EN 10204:2005 Type of inspection documents.

EN10021 General technical delivery conditions for steel

EN10277-1 Bright steel products technical delivery conditions

ISO 683-14 Hot-rolled steels for quenched and tempered springs

ISO 8458 part 1 and 3 Steel wire for mechanical springs

Spring manufacturing

EN 15800:2008 Quality specifications for cold coiled compression springs

DIN 2096-1 Quality requirements for hot formed springs

DIN 2096-2 Quality requirements for mass production

ASTM A125 Specification for steel springs, Helical, Heat treated

Stress relief heat treatment according to material supplier specifications.

ISO 26910-1 Springs -- Shot peening -- General procedures

Lesjöfors Standard for Pre-setting.

SAE J-442, Almen test, Shot Peening

Surface treatment

Volvo Standard 5751.5; Y500-4, Painting class for components of metal exposed for severe corrosive attacks.

Volvo test methods: Std 1021, Std 1024, Std 1027, Std 1029, Std 3371, Std 5711, Std 5715.

EN 12476, Zinc phosphate, Method of specifying requirements.

ISO 9717, Zinc phosphate, Method of specifying requirements.

ASTM B499 Test method for measurement of coating thickness by the magnetic method

EN ISO 2808 Paints and varnishes - Determination of film thickness

Quality and environment assurance

TS 16949:2009, ISO 9001:2008, auditor TÜV

ISO 14001:2004. auditor TÜV

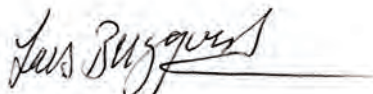
TÜV Automotive GMBH, Test chassis spring performance.

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