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**British Standard Specification for
Non-calibrated short link steel chain (grade 30)
for general engineering purposes: class 1 and 2**

Chaînes à maillons courts non calibrées (classe 30) pour mécanique générale :
catégories 1 et 2 — Spécifications

Nicht lehrenhaltige, kurzgliedrige Rundstahlketten (Güteklasse 30) des Typs 1 und 2
für allgemeine Zwecke

British Standards Institution

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Foreword

This British Standard has been prepared under the direction of the Mechanical Engineering Standards Committee to meet the needs of industry for a standard to replace BS 590 : 1949, which is withdrawn.

This standard deals with non-calibrated short link steel chain of grade 30 for general engineering purposes and provides for two qualities, class 1 quality chain for arduous duties such as lashing or load binding and class 2 quality chain for general duties.

Notwithstanding the usage permitted by the withdrawn BS 590, chain produced to this standard is not considered suitable for lifting purposes. This recognizes the lack of suitable compatible connecting components, such as hooks, and the trend, in lifting operations, towards the use of higher tensile strength steels for chain and other components as reflected by international standards and British Standards. Calibrated chain has not been included in this standard because of the wide variation in the design of pocketed wheels for use with this grade of chain, which makes it impractical to standardize the proportions of the chain links.

For chain for lifting applications, reference should be made to BS 4942 : Parts 1 to 6.

In view of the purposes for which chain complying with the requirements of this standard may be used and the importance of reliability, the opportunity has been taken to update some requirements, including those for material

and heat treatment in such a way that the chain maker may best benefit from technological advances in steel-making and chain production. For example, no precise steel specification is given but, in accordance with the philosophy on performance standards of the international committee ISO/TC 111, Round steel link chains, lifting hooks and accessories, responsibility for the choice of steel is vested in the chain maker, subject only to certain general requirements and the restriction of the use of rimming steels to the manufacture of class 2 chain only.

It should also be noted that, in defining the mechanical properties of the finished chain, the ratio of maximum service load to proof force to minimum breaking force of 1 : 2 : 4, used in international standards and British Standards for lifting chain of grade M (4) and higher, has been adopted for the heat-treated and tested class 1 chain. In the case of class 2 chain which may, at the discretion of the chain maker, be supplied in the non-heat-treated condition, the corresponding ratio 1 : 2 : 5 previously specified in BS 590 has been retained. Only class 1 chain is to be marked with the quality grade mark '30'.

Attention is drawn to appendix A which gives recommendations for the use, care and maintenance of chains.

Compliance with a British Standard does not of itself confer immunity from legal obligations.