Structure and properties of surface layers of selected constructional steels after sulfonitriding

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The necessity of reducing the adhesive forces of mating elements of machinery exploited in dry and mixed friction conditions is a bas e for elaborating many thermochemical and surface treatment operations [1-14]. The effect of these operations is to obtain upper layers wit h a low friction factor, elevated seizing resistance and adhesive wear. Among the layers which are characterized by such properties, compos ed antyadhesin layers, produced by adding ammonia to the atmosphere in process of nitriding oxygen, sulphur, phosphorus or their compoun ds have the largest practical application in the industry [7-10]. Methods of thermochemical treatment consist of simultaneous enrichement o f steel and cast iron surfaces with nitrogen and sulphur in sulfonitriding processes [6,9].

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