

ROBERT ULEWICZ

CZESTOCHOWA UNIVERSITY OF TECHNOLOGY, PRODUCTION ENGINEERING AND SAFETY DEPARTMENT,
ARMII KRAJOWEJ 19B, PL 42-201 CZESTOCHWA, POLAND

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OUTSOURCING QUALITY CONTROL IN THE AUTOMOTIVE INDUSTRY

Abstract: Providing high quality of products not covered by defective products is an important part of the supply chain between the manufacturer of the automotive parts and the final assembly company. The paper presents the results of research related to determining the effectiveness of quality control in a company producing plastic components for automotive industry at separate levels. Upon detection of nonconforming products at his plant, recipient according to the contract asked the supplier to launch the Controlled Shipping Level 1 procedures. As a result of the lack of significant improvement, there was run in the supplier's plant the Controlled Shipping Level 2 procedure realized on an outsourcing basis by specialized external company. Presented results of the research have made it possible to determine the effectiveness of carried out control activities. Carried out research, also confirmed by expert interviews, show that automotive companies aim to make their business more flexible so that they respond faster and more easily to internal and mainly external factors. What in the opinion of production and quality managers provides outsourcing of quality control.

* Corresponding author: robert.ulewicz@wz.pcz.pl

SANDRA VELIČKOVIĆ^{1*}
BLAŽA STOJANOVIĆ¹
BRANISLAV HADZIMA²
JOZEF MEŠKO³

SLAVICA MILADINović¹
RUŽICA NIKOLIĆ²
DUŠAN ARSIĆ¹

¹UNIVERSITY OF KRAGUJEVAC FACULTY OF ENGINEERING, KRAGUJEVAC, SERBIA

²UNIVERSITY OF ŽILINA, RESEARCH CENTER, ŽILINA, SLOVAKIA

³UNIVERSITY OF ŽILINA, FACULTY OF MECHANICAL ENGINEERING, ŽILINA, SLOVAKIA

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TRIBOLOGICAL CHARACTERISTICS OF Al/SiC/Gr HYBRID COMPOSITES

Abstract: Metal matrix composites (MMCs) are considered as important engineering materials due to their excellent mechanical, as well as tribological properties. When the metal (or alloy) matrix is reinforced with two or more reinforcements, those composites are the so-called hybrid composites. The aluminum metal matrix composites, reinforced with silicon carbide (SiC) and graphite (Gr), are extensively used due to their high strength and wear resistance. The tribological characteristics of such materials are superior to characteristics of the matrix. This research is presenting influence of the load and the graphite and silicon carbide contents the composites' wear rate and the friction coefficient

* Corresponding author: sandrav@kg.ac.rs