



INSTYTUT SPAWALNICTWA

ECOLOGICAL TESTING IN WELDING PROCESSES

The specialists of Environment Engineering Laboratory in Instytut Spawalnictwa, accredited by the Polish Centre for Accreditation, offers a wide range of research and services in work safety, health protection and ecology in welding processes.

The offer of Instytut includes:

- investigation of dust and gas emission in different processes and for various consumables
- optimisation of technological parameters of welding processes focused on the protection of welders' health and environment
- research of pollutants hazardous to workers' health and natural environment in welding processes, such as:
 - total dust and respirable dust
 - nitric oxides and carbon monoxides, ozone
 - carcinogenic substances
 - audible and ultrasonic noise
 - electromagnetic fields
 - microclimate
- giving opinions on personal protective measures for welders (clothing, welding goggles, welding helmets, etc.)
- development of guidelines for ventilation systems of welding shops and welding stations
- development of regulations and guidelines on industrial safety in welding
 - consultations and advice on recognition and elimination of hazards occurring during welding and cutting of metals

The Laboratory of Environmental Engineering equipped with up-to-date devices such as laser meter of dustiness, ozone meter, automatic CO and NOx meters, noise meter and electromagnetic fields meter offers the possibility of measurements and testing conducted on welding stations at Customers' premises.

On the basis of conducted research and development works and their results, specialists of the Laboratory have developed and offer:

- "Catalogue of Characteristics of Consumables in Respect of Emission of Pollutants"
- research and educational film "Protection of Human in Welding Processes"
- computer data base "EKO-SPAWANIE" including characteristics of welding consumables in respect of emission of pollutants.

The presentation of the film is highly advisable during basic courses of work safety in industrial enterprises as well as in welder training centres.

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