

## MZR DELIVERS RESULTS IN TURKEY

### SUCCESS AT LEADING MANUFACTURER OF MOTORWAY BARRIERS



Pyrotek Turkey was recently involved in quoting and process trials for the installation of a Metallurgical Zinkoff Recovery (MZR) system for zinc dross recycling at a leading metals industry company in Turkey, Alka Sanayi. Sales Manager, Arzu Kizilock, based in Istanbul, outlines the results of her recent visits to the customer's plant and of the joint process trials carried out with the MZR.

With headquarters in Istanbul, Alka Sanayi is the leading manufacturer of motorway barrier systems in Turkey, operating a hot-dip galvanizing facility at its plant in Gebze with a monthly capacity of 1500 t. The company must guarantee that the coatings on steel products are performed at top speed and in accordance with the TS 914, DIN 50976, BS 729 and ASTM standards.

The factory operates on a three-shift basis, producing between 660–880 kg (1455–1940 lb) ash per day. To date, this material had been simply sold on the open market.

Seeking a process solution for reclaiming a valuable resource, Alka had invited Pyrotek to carry out trials on recovery of zinc metal with the MZR technology at their plant. One week prior to the planned visit, Pyrotek Turkey provided information on how to install the MZR equipment, training requirements and the necessary installation connections. On arrival of the Pyrotek staff at the plant, the equipment, necessary connections and services were already effectively installed and the furnace was ready for startup.

A good recovery of 65% or 420 kg (925 lb) zinc was obtained after a 3½ hour burn. Factory Manager, Mr. Kadir, expressed satisfaction with the trial result—and since Alka's CEO Mr. Akman is also Vice President of the Galvanizing Association in Turkey, this installation is an excellent reference for the MZR.

Latest results from the company show metal recovery rates of between 63–65% with some 420 kg (925 lb) pure zinc and a minimum of 220 kg (485 lb) zinc oxide powder is reclaimed on a daily basis. With this performance, Pyrotek Metallurgical estimated the purchase payback time for the customer at two to three months.

[www.pyrotek.info/mzr](http://www.pyrotek.info/mzr)



Recovery process stages at Alka Sanayi using MZR technology



Motorway barriers