

ICS 91.220
CCS P 97



**NATIONAL STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

GB/T 28393-2012

**Road construction and maintenance machinery and equipment
- Synchronous chip seal trucks**

道路施工与养护机械设备 沥青碎石同步封层车

Issued on: May 11, 2012

Implemented on: October 1, 2012

**Issued by: General Administration of Quality Supervision, Inspection and
Quarantine;
Standardization Administration of the PRC**

Table of Contents

1 Scope	1
2 Normative references	1
3 Terms and definitions 2	4
2 Technical Requirements Test Method 5 5.....	14
15 Appendix A (normative) bitumen macadam synchronization sealer test records	17

Foreword

This standard rule according to GB/T 1.1-2009 given draft. The standard proposed by China Machinery Industry Federation. This standard by the national construction machinery and construction equipment Standardization Technical Committee (SAC/TC328) centralized. This standard was drafted. Xi'an Dagang Road Machinery Co., Ltd., Xi'an Road Construction Machinery Testing Center, Zhejiang PR machinery has Ltd., Xuzhou Construction Machinery Research Institute, Shenzhen City, measuring Detection Technology Co., Ltd., Beijing Institute of Construction Mechanization, Shenyang North Party Traffic Heavy Industry Group Co., Ltd. The main drafters of this standard. Xie Liyang, Litai Jie Hu Cheng Luan, Wu Lingyun, Zhu Ping, Jiang Hui, Huang Fu Jian-hong, Palace Yongjie, Mengqing Yong, ROCKETS, Sun Huashan, Zhao Yanjun. Road construction and maintenance machinery and equipment asphalt macadam Synchronization sealer

1 Scope

China's national standard for synchronous chip seal trucks. It specifies the terms and definitions, the technical requirements, the test methods, the inspection rules and the marking, packaging, transport and storage of the machines that spray bituminous binder and spread chippings in one pass. Chip sealing is the cheapest way to keep a road alive. A thin film of bitumen is sprayed onto the existing surface and stone chippings are spread onto it immediately and rolled in; the result seals the surface against water, restores skid resistance, and costs a small fraction of an overlay. It is the treatment that maintains most of the world's secondary road network, and the whole of its success depends on the chippings meeting the binder while the binder is still able to wet them. That is what synchronous means and why the machine exists. A conventional operation sprays with one vehicle and chips with another following behind, and the interval between them - seconds to minutes, depending on the traffic and the discipline of the crew - is when the binder cools, skins and picks up dust. A synchronous truck carries the spray bar and the chipping spreader on the same chassis, a metre or so apart, so the stone lands on binder that is still hot. The bond

that results is measurably better, the chipping loss under early traffic is lower, and the binder rate can be reduced because less is wasted. So the standard specifies the two systems and their coordination: the binder tank, heating and circulation, the spray bar and the uniformity of its transverse distribution, the chipping hopper and spreader and the uniformity of its spread, the synchronisation between them, and the control of application rate against road speed. Issued on 11 May 2012 and in force since 1 October 2012.

This standard specifies the asphalt sealer gravel synchronization of terms and definitions, technical requirements, test methods, inspection rules, marking, packaging, transportation And storage and so on. This standard applies to asphalt gravel synchronous sealer.

2 Normative references

The following documents for the application of this document is essential. For dated references, only the dated edition applies to this article Member. For undated references, the latest edition (including any amendments) applies to this document.

GB 1495 vehicle acceleration with the vehicle noise limits and measurement methods

GB 1589 road vehicles outside the gallery dimensions, axle load limits and quality

GB/T 3766 General technical conditions for hydraulic systems

GB 3847 Vehicle compression-ignition engines and compression-ignition engine vehicle exhaust smoke emission limits and measurement methods

GB 4785 Installation instructions car and trailer exterior lighting and light signaling devices

GB/T 6420 series spectrum cargo trailer

GB 7258 safe operation of motor vehicles technical conditions

GB/T 9969 General Industrial Product Manual

GB 11567.1 car and trailer side protection requirements

GB 11567.2 car and trailer rear underrun protection requirements

GB/T 12536 car coasting test method Steep Test methods GB/T 12539 cars climb

GB/T 12540 car Minimum turning diameter, the minimum clearance circle and placed outside the measurement method

GB/T 12543 vehicle acceleration performance test method