Global Standard

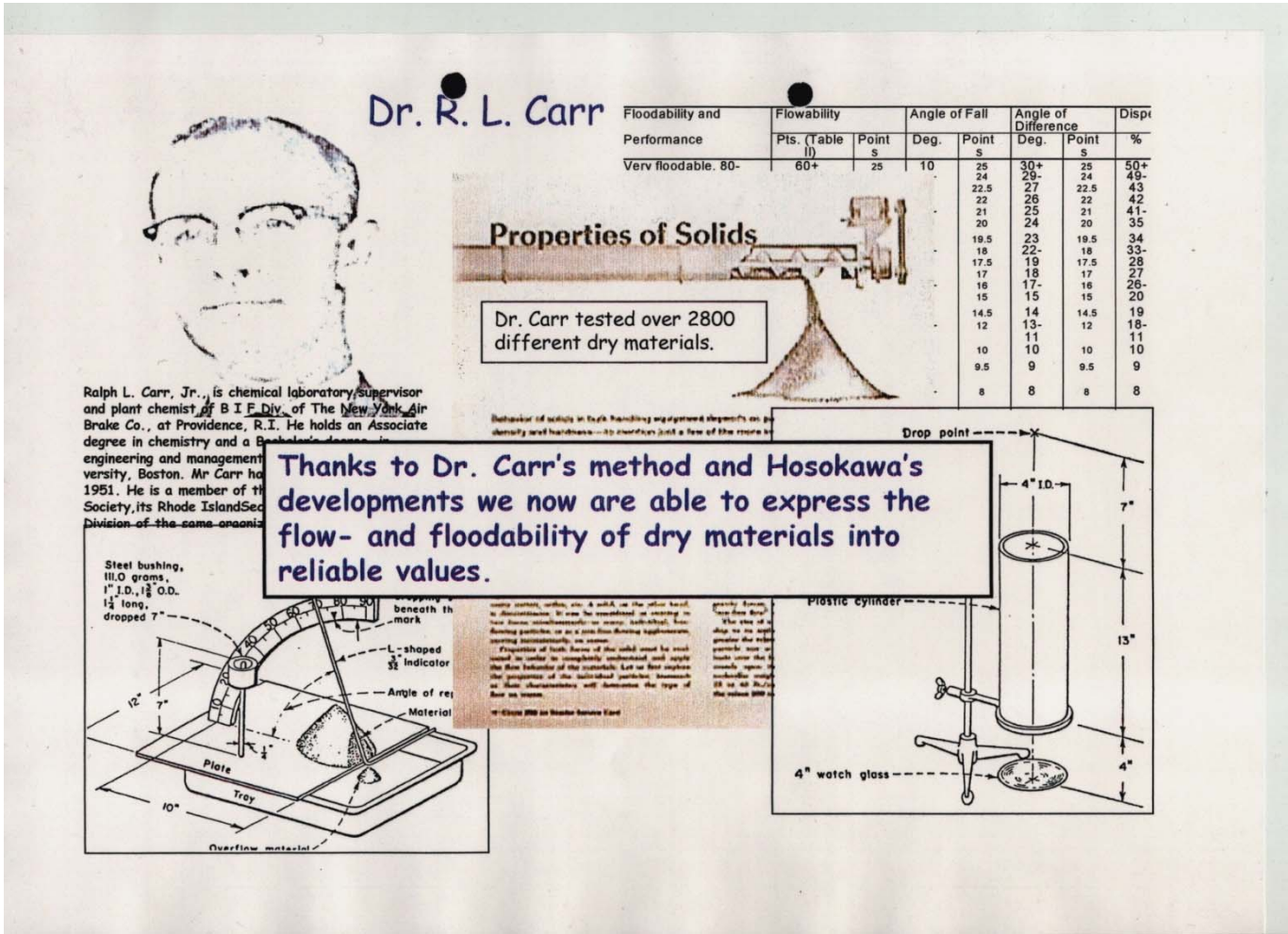
Powder Tester

For the Powder Characteristic Evaluation

HOSOKAWA MICRON CORPORATION

R & D division / Shuji Sasabe

◆Carr's method

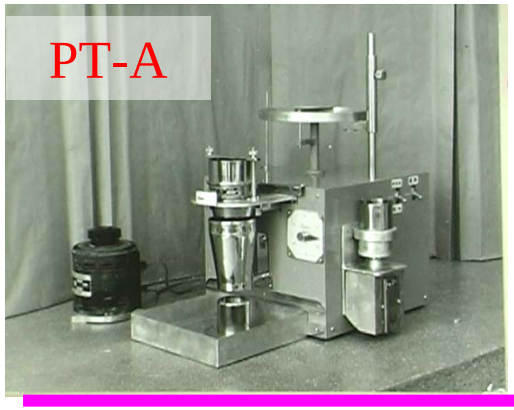


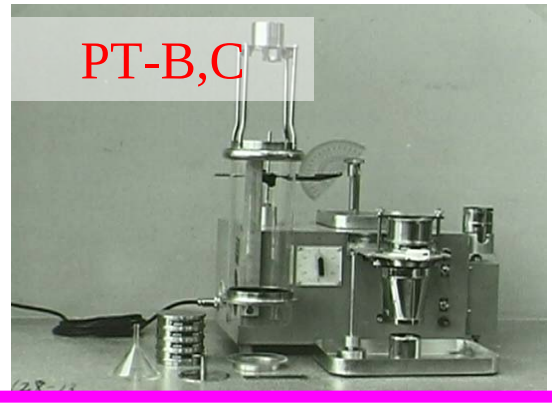
Floodability and Performance	Flowability Pts. (Table II)	Flowability Points	Angle of Fall Deg.	Angle of Fall Points	Angle of Difference Deg.	Angle of Difference Points	Disp %
Very floodable. 80-	60+	25	10	25	30+	25	50+
				24	29-	24	49-
				22.5	27	22.5	43
				22	26	22	42
				21	25	21	41-
				20	24	20	35
				19.5	23	19.5	34
				18	22-	18	33-
				17.5	19	17.5	28
				17	18	17	27
				16	17-	16	26-
				15	15	15	20
				14.5	14	14.5	19
				12	13-	12	18-
					11		11
				10	10	10	10
				9.5	9	9.5	9
				8	8	8	8

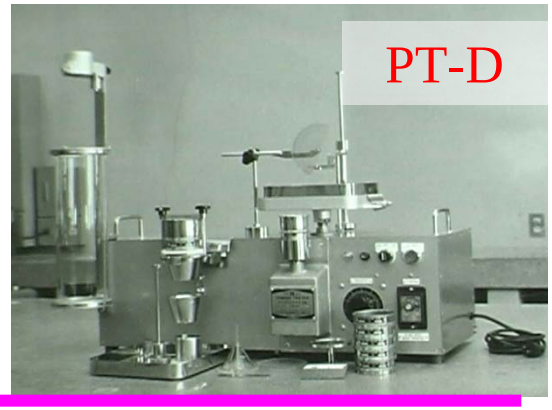
◆*Powder Tester* *model* *PT-X*

■ **The 9 th version of *POWDER TESTER* since 1968**

POWDER TESTER is widely used all over the world.
Over 3,500 units of **POWDER TESTER** have been delivered to industries in 40 years..

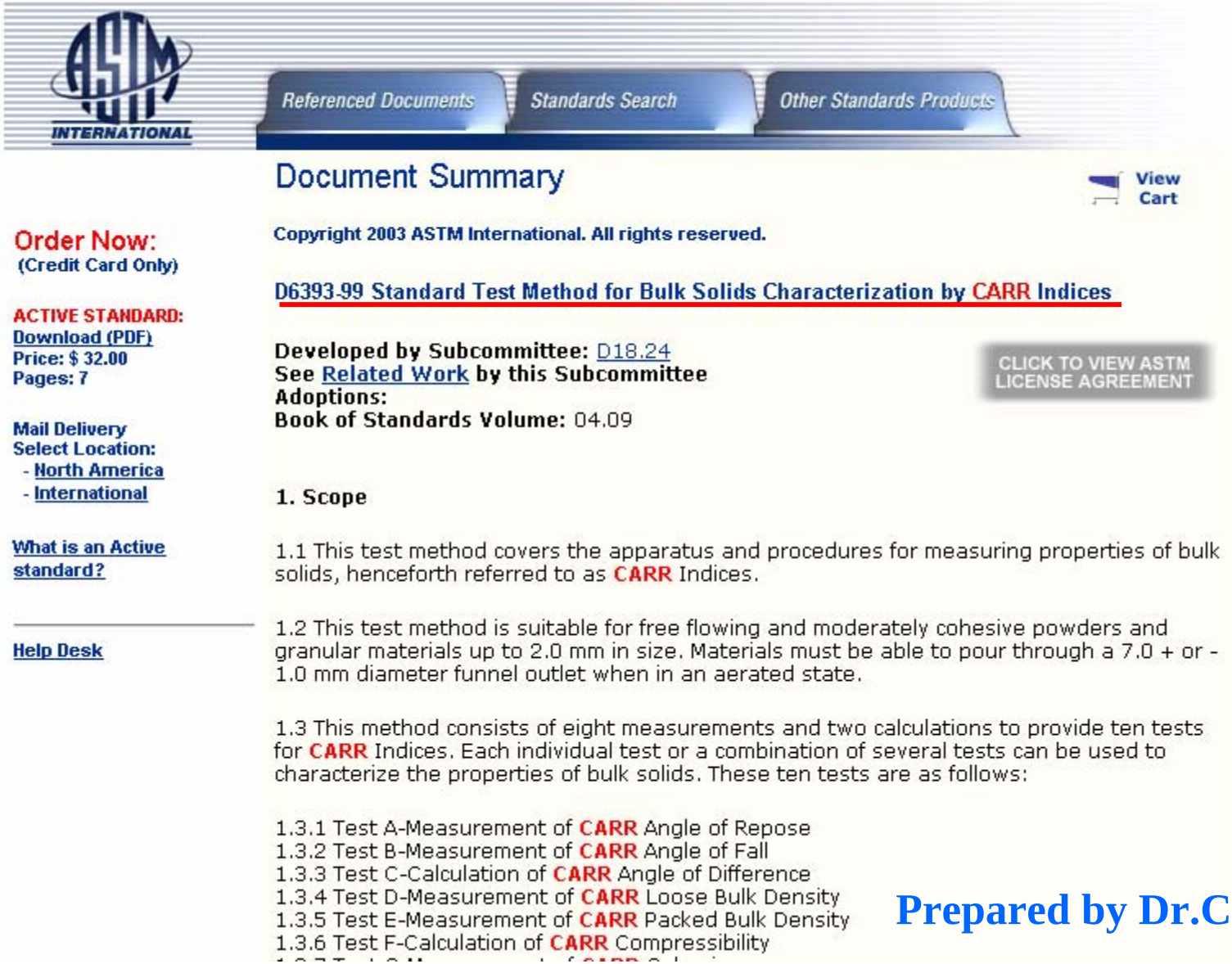






Powder Tester is involved in more than 5,000 patent applications only in Japan.

◆ ASTM No. D6393-99



ASTM INTERNATIONAL

Referenced Documents | Standards Search | Other Standards Products

Document Summary

View Cart

Order Now:
(Credit Card Only)

ACTIVE STANDARD:
Download (PDF)
Price: $ 32.00
Pages: 7

Mail Delivery
Select Location:
- North America
- International

What is an Active standard?

Help Desk

D6393-99 Standard Test Method for Bulk Solids Characterization by CARR Indices

Developed by Subcommittee: D18.24
See Related Work by this Subcommittee
Adoptions:
Book of Standards Volume: 04.09

CLICK TO VIEW ASTM LICENSE AGREEMENT

1. Scope

1.1 This test method covers the apparatus and procedures for measuring properties of bulk solids, henceforth referred to as CARR Indices.

1.2 This test method is suitable for free flowing and moderately cohesive powders and granular materials up to 2.0 mm in size. Materials must be able to pour through a 7.0 + or - 1.0 mm diameter funnel outlet when in an aerated state.

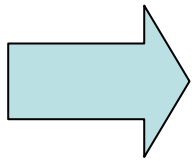
1.3 This method consists of eight measurements and two calculations to provide ten tests for CARR Indices. Each individual test or a combination of several tests can be used to characterize the properties of bulk solids. These ten tests are as follows:

1.3.1 Test A-Measurement of CARR Angle of Repose
1.3.2 Test B-Measurement of CARR Angle of Fall
1.3.3 Test C-Calculation of CARR Angle of Difference
1.3.4 Test D-Measurement of CARR Loose Bulk Density
1.3.5 Test E-Measurement of CARR Packed Bulk Density
1.3.6 Test F-Calculation of CARR Compressibility

Prepared by Dr.C.C.Huang

◆Basic Concept of Carr's Evaluation

Compression	Aerated Bulk Density
	Packed Bulk Density
	Compressibility
Shear Property	Angle of Repose
	Angle of Collapse
	Angular Difference
	Angle of Spatula
Others	Cohesiveness
	Dispersibility
	Uniformity

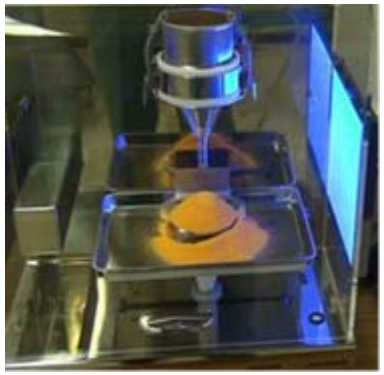


Flowability

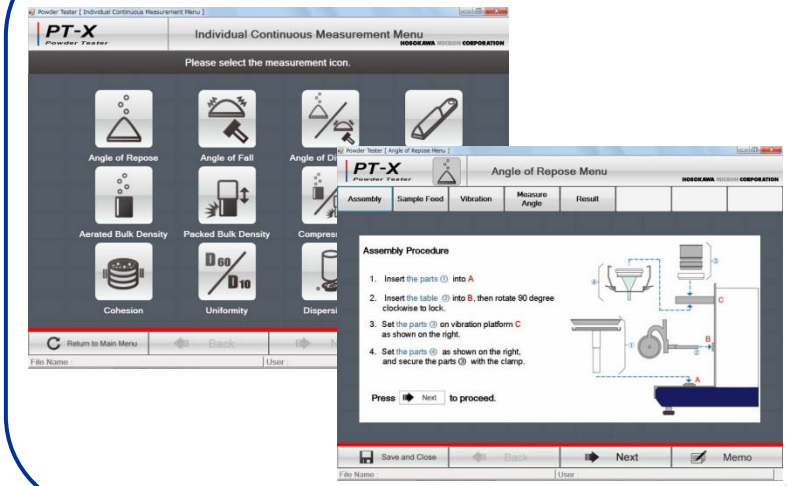
Floodability

◆Features

Angle measurement

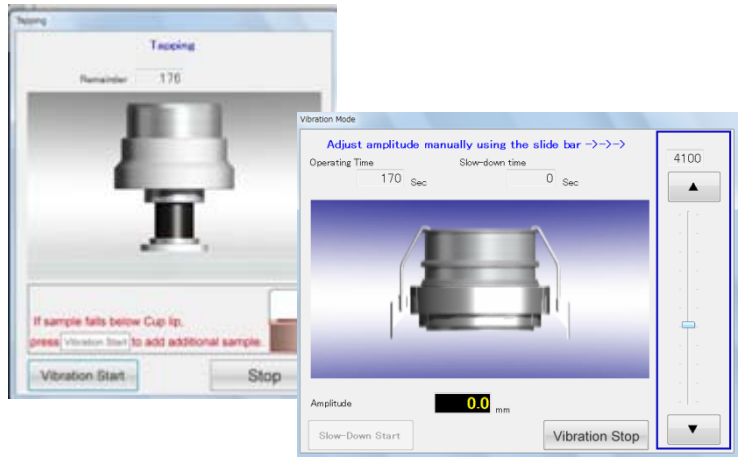


User friendly Touch panel operation



Bulk Density

Electronic control



- CE conformity
- RoHS correspondence
- Shortening of measurement time