

INDUSTRIAL
CHEMICALS
DIVISION



Bulletin 17-2C

Typical Property Data for PQ® Sodium Metasilicates

PQ's Sodium Metasilicates are free-flowing water-soluble beaded powders of metasilicate (silica (SiO₂)-to-soda (Na₂O) ratio of 1). PQ's Sodium Metasilicates are manufactured from sodium silicate glass, which is produced in furnaces by melting high purity sand with soda ash.

PQ Sodium Metasilicates are available in anhydrous form (METSO BEADS®2048) and pentahydrate (METSO PENTABEAD®20) for industrial cleaning and detergent applications. For additional information, see our website: www.PQCorp.com

PQ Sodium Metasilicates are characterized by the property data shown below. The properties and ranges shown are typical values, not manufacturing specifications. Physical properties are measured at 20°C (68°F). For more information, please contact PQ Technical Service at 416-201-4355.

Typical Property Data	METSO BEADS® 2048 Anhydrous Sodium Metasilicate	METSO PENTABEAD® 20 Sodium Metasilicate Pentahydrate
Wt % Na ₂ O (±1.0)	50.5	29.3
Wt % SiO ₂ (±1.4)	46.2	28.4
Wt% H ₂ O (±0.5)	<3	41.75
Density, lb/ft ³ (g/cm ³)	68 (1.09)	55 (0.88)
Particle Size, Tyler	93% in 20 to 65 mesh	94% in 16 to 48 mesh
Melting Point, °F (°C)	1990 (1088)	162 (72)
Rate of Solution in Water, sec (5wt%, 70°F)	80	35
Appearance of Solution	Clear	Clear

Although the information and suggestions in this brochure ("information") are believed to be correct, PQ Corporation makes no representations or warranties as to the completeness or accuracy of the information. The information is supplied upon the following conditions: The persons receiving the information will determine its suitability for their purposes; PQ Corporation will not be responsible for damages of any nature whatsoever resulting from the use of, or reliance upon, the information or the materials, devices or products to which the information refers; No information is to be construed as a recommendation to use any product, process, equipment or formulation in conflict with any patent; PQ Corporation makes no representation or warranty, express or implied, that the use thereof will not infringe any patent; and NO REPRESENTATIONS OR WARRANTIES, EITHER EXPRESS OR IMPLIED, OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR OF ANY OTHER NATURE ARE MADE HEREUNDER WITH RESPECT TO INFORMATION OR THE MATERIALS, DEVICES OR PRODUCTS TO WHICH THE INFORMATION REFERS.

Copyright © 2015 by PQ Corporation.

All rights reserved. No part of this publication may be reproduced, stored in a retrieval system or transmitted in any form or by any means electronic, mechanical, photocopying, recording or otherwise, without the prior permission of the publisher and copyright holder.

