
**Plastics piping systems for the supply
of gaseous fuels — Unplasticized
polyamide (PA-U) piping systems
with fusion jointing and mechanical
jointing —**

**Part 5:
Fitness for purpose of the system**

*Systèmes de canalisations en matières plastiques pour la distribution
de combustibles gazeux — Systèmes de canalisations en polyamide
non plastifié (PA-U) avec assemblages par soudage et assemblages
mécaniques —*

Partie 5: Aptitude à l'emploi du système





COPYRIGHT PROTECTED DOCUMENT

© ISO 2021

All rights reserved. Unless otherwise specified, or required in the context of its implementation, no part of this publication may be reproduced or utilized otherwise in any form or by any means, electronic or mechanical, including photocopying, or posting on the internet or an intranet, without prior written permission. Permission can be requested from either ISO at the address below or ISO's member body in the country of the requester.

ISO copyright office
CP 401 • Ch. de Blandonnet 8
CH-1214 Vernier, Geneva
Phone: +41 22 749 01 11
Email: copyright@iso.org
Website: www.iso.org

Published in Switzerland

Contents

	Page
Foreword	iv
Introduction	vi
1 Scope	1
2 Normative references	1
3 Terms and definitions	2
4 Symbols	3
5 Fitness for purpose	3
5.1 Method of preparation of assemblies for testing	3
5.1.1 General	3
5.1.2 Butt fusion joints	3
5.1.3 Electrofusion jointing	3
5.1.4 Transition fittings	4
5.2 Requirements for fitness for purpose	4
5.2.1 Fitness for purpose for butt fusion joints	4
5.2.2 Fitness for purpose for electrofusion joints	5
5.2.3 Fitness for purpose for transition fittings	7
6 Design coefficient	7
Annex A (normative) Preparation of test assemblies by butt fusion	8
Annex B (normative) Preparation of test assemblies by electrofusion	11
Annex C (informative) Derating coefficients for operating temperatures	12
Annex D (normative) Rapid crack propagation (RCP) resistance of pipe at temperature less than 0 °C	13
Bibliography	14