

Government of Pakistan PAKISTAN ORDNANCE FACTORIES TENDER ENOUIRY

Го	M/s	TENDER ENQUIRY
Dear	Sirs,	
		rence: TENDER ENQUIRY NO. <u>0191/LP/FILL/54</u> You are requested to submit quotations for the item(s) noted in the Schedule to Tender. Please note the following instructions for filling the tender:-
1. <u>s</u> ı	UBMISS	ION OF TENDER
1.1	Hall, <u>www.e</u> minut	ebidding.pof.gov.pk as well as in hard form (duly sealed in envelope) before 30 tes of opening time. The tender received late will not be entertained. You may ess the opening of the tender if you so desire. If a representative is deputed, he
		Tender Enquiry No: 0191/LP/FILL/54 Tender to be opened on: 14-DEC-24 Address as follows:-
		(www.ebidding.pof.gov.pk) BID CENTER
		ADJACENT TO RABITA HALL
		POFs, WAH CANTT.
2 . <u>G</u> 1	ENERAL	INSTRUCTIONS REGARDING PREPARATION OF QUOTATIONS
2.1		Materials, the prices should be filled in column 5 and delivery date in column 7 of schedule to this Tender Enquiry. As per PPRA Rule 36(b), Single Stage two

- 2.1 For Materials, the prices should be filled in column 5 and delivery date in column 7 of the schedule to this Tender Enquiry. As per PPRA Rule 36(b), Single Stage two envelope method will be utilized for "Open competitive bidding." Moreover, technical & commercial evaluation of Bids will be carried out strictly as per PPRA rules and contract(s) will be awarded to the most advantageous bidder(s).
- 2.2 For Plant and Machinery, you are required to quote in two parts:-Part I "Technical Offer": It should exclusively give technical details and literatures/brochures of the offered plant, machinery and equipment; validity date; delivery schedule; and signed undertaking given on the schedule to this Tender Enquiry. It must not indicate price, costs etc.

-2- **POF 1262-A**

Part II "Commercial Offer": It should indicate the commercial terms e.g.price, terms of payment, mode of payment, mode of supply.

- 2.3 The quotation must remain valid for, at least 90 days from the date of opening of commercial tenders, extendable if so desired.
- 2.4 The quotation should hold good for any reduced or enhanced quantities without notice.
- 2.5 In the event of non-acceptance of offer, intimation may be given to the Tenderers on their request.
- 2.6 Conditional offers or alternative offers are likely to be ignored.
- 2.7 Quotations should be based on:-
 - F.O.R. station of dispatch basis, i.e. delivered free on rail, inclusive of packing and forwarding charges. The stores will be booked under Military Credit Note, to be provided by the purchaser.

and/or

Free delivery at POF's stores at **WAH CANTT**In this case Octroi duty, will be payable by the supplier.

- 2.8 Taxes and Duties etc. where applicable, must be shown separately, quoting refrences to Registration No. in cases of Sales Tax and relevent authority in the case of others. Offers without these clarifications and inclusive of Taxes and Duties may be ignored.
- 2.9 Taxes and duties levied on or after Tender opening date or on or after the date offer was signed and dispatched will be allowed to include in the offered rates.
- 2.10 "Suppliers will furnish a certificate, issued by Excise & Taxation deptt:, that he has cleared all Proffessional Tax payable by him" offers recieved without this certificate will be rejected.
- 2.11 Suppliers will render necessary information regarding hazardous effects on environment, of the material/products supplied by them, in their quotations and shipping/dispatch documents.
- 2.12 If the requisite information is not furnished on the T.E forms or offer received is not conformity with the requirement of the T.E such offer shall be ignored.

3. INSPECTION

- 3.1 Supplies shall be subject to the inspection and acceptance by the competent inspection authority nominated by the Purchaser, who will arrange it at his own cost. Inspection facilities such as tools, test equipment, instruments etc will, however, be provided by the Suppliers in accordance with the relevant specifications.
- 3.2 Where considered necessary by the Purchaser, stores may be obtained on Warranty/Guarantee subject to inspection on receipt. Rejected stores will be removed and replaced with the acceptable stores by the Supplier at his own expense, within a specified time.

-3-POF 1262-A

4. TENDER FEE

The tender must be accompanied by a copy of non-refundable fee by means of a crossed postal order/pay order for Rs. 500/- in favour of: **Director-Admin-POFs**, **Wah Cantt**. The tender fee instrument in original must be provided on day/date of tender opening in the Bid Center.

4.1 TENDER SAMPLE

Where required, offer must accompany tender sample., strictly according to the description and specification given in Tender Enquiry. Offer not accompanied by tender sample will NOT be entertained excepting the established and reputable firms who have either previously satisfactorily supplied the same or similar stores or have submitted an acceptable sample thereof against previous T.E.

5. BID Security

5.1 A copy of Bid Security should accompany the tender in shape of deposit at call receipt/Pay Order/Banker Cheque from scheduled bank drawn in favour of :-

GM PP&C FILLING

- 5.2 Bid security instrument in original must be provided on the day/date of tender opening in the Bid Center as under:
 - a. Registered/indexed firms including foreign firms 2% of quoted value subject to the maximum ceiling of Rs. 0.5 Mn.
 - b. Registered/un-indexed firms including foreign firms 3% of quoted value subject to the maximum ceiling of Rs. 0.75 Mn.
 - c. Unregistered Firms including foreign firms 5% of quoted value subject to the maximum ceiling of Rs. 1.00 Mn.
 - d. Govt organization/production units/state owned enterprises/welfare projects of Svcs HQ Rs 0.50 M. can be waived off on request by DG(C)
 - e. Bid money will be returned to unsuccessful (less first three lowest quotee firms) bidders on opening of commercial offers
 - f. Bid money will be returned to successful bidders on submission of performance bond/unconditional B.G.
 - g. Quotation accompanied with less bid money will be accepted on provisional basis for $10\ x$ days after opening of bids. However the firms are bound to provide/furnish the balance bid money within $10\ x$ days after opening of bid otherwise such quotations will be ignored or rejected
 - h. Offers received without Bid Security will not be entertained.
 - i. Bid money will be forfeited in case the quotation is withdrawn before the expiry of its validity date.

6. ACCEPTANCE OF OFFERS

6.1 POF may reject all bids or proposals at any time prior to the acceptance of bid(s) or proposal, but is not required to justify grounds for its rejection. POF shall incur no liability towards supplier or contractor who have submitted bids or proposals.

6.2 PERFORMANCE BOND

- (a) The successful bidders shall provide performance bond which shall not exceed 10% of contract value, in the form of Deposit At Call Receipt from a scheduled Bank; or, an un-conditional Bank Guarantee on a prescribed format. The performance Bond will be in favour of C.M.A.(POF) Wah Cantt. It will be returned on satisfactory completion of contract.
- (b) If the Supplier fails to furnish the Performance Bond within the specified time, such failure will constitute a breach of the contract and the Purchaser shall be entitled to make other arrangements for purchase of the stores at the risk and expense of the Supplier.

POF 1262

-4-

6.3 Performance Bond from State owned organizations may be waived off at the discretion of the Purchaser.

6.4 FAILURE TO SUPPLY THE STORES

All deliveries must be completed by the specified date. In case of failure to deliver the stores within the scheduled time should have arisen from "Force Majeure", which the purchaser may admit as reasonable ground for further time, he will allow such additional time as he may consider to have been required by the circumantances of the case.Otherwise, he will be entitled, at his discretion, to cancel the contract; and/or claim liquidated damages upto 2% but not less than 1% of the contract price of the items and their quantities for each and every month or part of a month, beyond the specified delivery date, during which these may not be delivered, subject to a maximum of 10% of the total contract value of the particular stores which remained unsupplied either in part or in full: or, to purchase from elsewhere, the unsupplied stores at the risk and cost of the supplier.

6.5 PAYMENT

Payment will be made by the CMA(POF) through crossed cheque on receipt/acceptance of stores on our prescribed bill form supported by receipt voucher on part/full supply basis.

(a) Payment of duties/Taxes including professional tax (where applicable) must be supported by proof of having paid these to concerned Govt. Taxation Deptt.

7. SECURITY OF INFORMATION

The tenderer and his employees must not communicate any information relating to the sale/purchase of stores under this enquiry to any person other than the manufacturer or to any press or agent not authorised in writing by POFs to receive it.

Please return the Schedule to the Tender duly signed by the specified date, alongwith the specifications, drawings etc.if any, enclosed herewith – even if you are unable to $$\operatorname{\mathsf{quote}}$.$

<u>WARNING</u> In case the firm abstain from making offers or fail to return/acknowledge the tender form by the specified date on three consecutive occasions, no further tender enquiry may be issued to them and their names would liable to removed from the approved list.

Yours faithfully

SUMAIRA YAMIN MANAGER PURCHASE FILL

for PAKISTAN ORDNANCE FACTORIES

PAKISTAN ORDNANCE FACTORIES

SCHEDULE TO TENDER NO. 0191/LP/FILL/54

19-OCT-24

(1) FOR MATERIALS

(1)	(2)	(3)	(4)	(5)	(6)	(7)
Item No.	Description with Specs. etc.	Unit	Qty	Quoted Value	Price Per Unit FOR or free delivery	Delivery Date
					In Figures In Words	

1	PROOF BLACK 25.4 MM WIDE IN ROLL OF 50 METERS. SPEC NO. DEF-STAN 81-25/3	METE	R 83500		02 MONTHS

Total Rs =	
+ GST =	
Total value Rs =	

(2) For Plant & Machinery:
 Specification:-

(3) Special Conditions

- (1) Required Delivery period: 03 Months after placement of contract.
- (2) Inspection of store will be carried out by Director Q.A POF Wah Cantt. 05% Super check by user section,
- (3) Firms registered with Sales Tax and Income Departments who are on Active Taxpayers List (ATL) of FBR are eligible to participate in the bid. Documentary proof of the same must be attached with the bid.
- (4) Participating firms must confirm T.E Spec Parameters. If the firm is participating 1st time in tender of requisite store, the sample of requisite store strictly as per required parameters have to be submitted alongwith technical quotation.
- (5) The tender received without electronic means will not be entertained. You may witness the opening of tender if you so desire. If a representative is deputed, he should bring a letter of authority.
- (6) Hard copy of both technical & financial quotation must also be reached to Bid Centre before tender opening. Photocopy of bid money hiding the amount must be accompanied with technical quotation.
- (7) Quotation must remain valid for 90 days from date of commercial tender opening and should hold good for any reduced or enhanced quantity.
- (8) Photocopy of NTN & PTC Certificate duly attested by Gazetted Class-I Officer must be attached with the bid.
- (9) Participating firms should have not defaulted in any contract with POF or any other govt. organization.
- (10) Bids will be opened as per PPRA Rule 36 (b) "Single Stage-Two Envelope Procedure" in which the bid shall comprise of two separate envelopes: Technical proposal and commercial proposal. Initially only Technical Offer will be opened.
- (11) Price escalation clause is not allowed. No fax or e-mail offer will be accepted.
- (12) Supplier must accept all the terms and conditions embodied in the form POF 1281 (General conditions of contract) and in T.E general instructions Performa form POF 1262 A (indigenous supplies).
- (13) Rates and sales Tax must be shown separately otherwise rate will be considered inclusive of G.S.T.
- (14) Please clearly confirm our specs / drawing. Conditional or alternative offers are likely to be ignored.
- (15) The store must be protected adequately and appropriately against damages from environmental effects, water or other substances during journey/transportation to withstand the rough handling involved in the transit and provide preservation of store while held in the storage by the supplier.
- (16) Any quantity of store, if found defective functionally will essentially be replaced by the supplier free of cost under his own arrangements.
- (17) The firm will furnish warranty/ Guarantee for 01 year.
- (18) The firm will be liable to deposit of stamp duty @ 0.25% of contract value to respective revenue

PAKISTAN ORDNANCE FACTORIES

SCHEDULE TO TENDER NO. 0191/LP/FILL/54

19-OCT-24

(1)	(2)	(3)	(4)	(5)	(6)		(7)
Item No.	Description with Specs. etc.	Unit	Qty	Quoted Value	Price Per U FOR or free d		Delivery Date
					In Figures In	n Words	

office.

Undertaking

Should our offer be accepted, we hereby undertake to supply the stores/render the services contracted on the basis of General Conditions of Contract embodied in Form POF 1281, and to deposit the performance bond within the prescribed time, failing which it will constitute a breach of contract, and POF will have the right to purchase the stores/services elsewhere at our risk and cost.

Place	Signature of the Tenderer	
Date	Name	
	Position	
	Address	
	Income Tax G.I.R. No	
	Official Stamp	

Ministry of Defence



Defence Standard

81-25/Issue 3

23 October 1998

TAPE, PRESSURE-SENSITIVE ADHESIVE (WATER-RESISTANT FABRIC)

This Defence Standard supersedes Def Stan 81-25/Issue 2 dated 2 August 1988

AMENDMENTS ISSUED SINCE PUBLICATION

AMD NO	DATE OF ISSUE	TEXT AFFECTED	SIGNATURE & DATE
è			

Revision Note

This Defence Standard has been revised to bring test methods and procedures into line with up-to-date requirements.

Historical Record

DEF-1314, dated October 1963 Def Stan 81-25/1, dated 15 August 1973 Def Stan 81-25/2, dated 2 August 1988

TAPE, PRESSURE-SENSITIVE ADHESIVE (WATER-RESISTANT FABRIC)

PREFACE

This Defence Standard supersedes Defence Standard 81-25/Issue 2 dated 2 August 1988

- i This Defence Standard specifies the requirements for tape, pressure-sensitive adhesive (water-resistant fabric).
- ii This Standard has been produced on behalf of the Defence Material Standards Development and Management Committee (DMSDMC) by the Rubber, Plastics and Adhesives Subcommittee (E13).
- iii This Standard has been agreed by the authorities concerned with its use and is intended to be used whenever relevant in all future designs, contracts, orders etc and whenever practicable by amendment to those already in existence. If any difficulty arises which prevents application of the Defence Standard, the Directorate of Standardization shall be informed so that a remedy may be sought.
- Any enquiries regarding this Standard in relation to an invitation to tender or a contract in which it is incorporated are to be addressed to the responsible technical or supervising authority named in the invitation to tender or contract.
- v This Standard has been devised for the use of the Crown and its contractors in the execution of contracts for the Crown. The Crown hereby excludes all liability (other than liability for death or personal injury) whatsoever and howsoever arising (including, but without limitation, negligence on the part of the Crown its servants or agents) for any loss or damage however caused where the Standard is used for any other purpose.

CONTEN	<u>P</u>	AGE
Preface		1
1 Sc	cope	3
2 W	ARNING	3
3 R	elated Documents	3
4 In	formation to be Supplied by the Purchaser	4
5 M	aterials and Manufacture	4
6 Te	est Requirements	4
7 K	eeping Qualities	7
8 C	ontainers and Marking of Containers	7
Table A	Test Requirements	5
Annex A	Method of Test for the Determination of Heat Ageing	A-1
Annex B	Method of Test for the Determination of Adhesion to Steel after Heat Ageing	B-1
Annex C	Tear Test	C-1
Annex D	Method of Test for the Determination of Humid Ageing	D-1

TAPE, PRESSURE-SENSITIVE ADHESIVE (WATER-RESISTANT FABRIC)

1 Scope

This Defence Standard specifies the requirements for water-resistant fabric, pressure-sensitive adhesive tape, which is supplied in rolls, suitable for making or reinforcing the closures of packages or containers, where a measure of resistance to water is required.

2 WARNING

This Standard calls for the use of substances and/or procedures that may be injurious to health if adequate precautions are not taken. It refers only to technical suitability and in no way absolves either the designer, the producer, the supplier or the user from statutory and all other legal obligations relating to health and safety at any stage of manufacture or use.

3 Related Documents

3.1 Reference is made in this Standard to:

BS EN 12025	Self Adhesive Tapes
	Measurement of the tear resistance by the pendulum method
BS EN 20780	Packaging - Pictorial Marking for Handling of Goods
BS EN 60454	Specification for Pressure-Sensitive Adhesive Tapes for Electrical Purposes
	Part 2: Methods of Test
BS 3266	Methods of Test for Determination of Conductivity, pH, Water-Soluble
	Matter, Chloride and Sulphate in Aqueous Extracts of Textile Materials

- 3.2 Reference in this Standard to any related documents means in any invitation to tender or contract the edition and all amendments current at the date of such tender or contract unless a specific edition is indicated.
- 3.3 Copies of the British Standards and information regarding current editions may be obtained from the following address:

DOCUMENT	SOURCE
British Standards	British Standards Institution Sales Department 389 Chiswick High Road LONDON W4 4AL Tel: 0181 996 7000 Fax: 0181 996 7001

4 Information to be Supplied by the Purchaser

The purchaser shall state clearly in his order the following requirements:

- 4.1 Width of tape.
- 4.2 Length of tape per roll in a continuous length (normally 50 m).
- 4.3 Colour.

5 Materials and Manufacture

- 5.1 The material shall consist of a clean woven fabric made uniformly water-resistant on one side by means of a suitable lacquer or coating which is not a discrete plastic film, and which is uniformly coated on the other side with a suitable pressure-sensitive adhesive composition.
- 5.2 Each roll shall be wound so that each succeeding turn reasonably coincides with the one below and with the core on which it is wound.
- 5.3 Each roll shall be reasonably free from telescoping, gapping, or other forms of distortion. When unrolled, the tape shall show negligible transference of the adhesive to the backing of the underlying turn, tearing of the base, or fraying of the thread.
- 5.4 The rolls shall be stored and supplied with their cut edges covered by suitable separators, so that the cut edges do not come into contact with each other or with any container in which they are packed.

6 Test Requirements

6.1 Rolls of tape taken from any portion of the supply shall comply with clause 5. After removal of the three outer turns, the remainder of the tape shall comply with the test requirements of table A.

Table A

Test Requirements

ITEM NO	PROPERTY	REQUIREMENT	METHOD OF TEST
1	Unreeling	The material shall part cleanly and without fraying from the underlayer leaving the uncoated side of the underlayer free from transferred adhesive. The adhesive side shall be free from transferred waterproofing.	Unwind radially from the roll at a rate of approx 0.3 m/s. (0.15 to 0.2 m/s for tapes over 50 mm wide).
2	pH of aqueous extract	5.5 to 8.0	BS EN 60454-2, Clause 7
3	Conductivity of aqueous extract, mS/m	2.5 max	BS EN 60454-2, Clause 7
	When conductivity exceeds 2.5 mS/m		
	a) Chloride, % m/m calculated as NaCl	0.05 max	BS 3266 Volumetric Method
	b) Sulfate, % m/m calculated as Na ₂ SO ₄	0.25 max	BS 3266 Gravimetric Method
4	Tensile strength, kN/m	5.5 min	BS EN 60454-2, Clause 8
5	a) Adhesion to steel, N/m	200 min	BS EN 60454-2, Clause 11
	b) Adhesion to backing, N/m	200 min	
•		The tape shall strip in its entirety from the plate or self, and there shall be no separation of the adhesive layer from the backing material.	

(Concluded on Page 6)

6.1 (Contd)

Table A (Concluded)

TEM NO	PROPERTY	REQUIREMENT	METHOD OF TEST
6	a) Adhesion to steel after water immersion, N/m a) Adhesion to backing after water immersion, N/m	200 min 200 min The tape shall strip in its entirety from the plate and/or backing, and there shall be no separation of the component layers.	BS EN 60454-2, Clause 11 Immerse in water at (23 ± 2) °C for 24 hours.
7	Heat Ageing	The material shall remain firmly adhered to the surface to which it is applied without any delamination or wrinkling, and the edges of the test specimens shall not show any significant signs of lifting from position.	Annex A
8	Adhesion to steel after heat ageing, N/m	The tape shall strip in its entirety from the plate and there shall be no separation of the component layers.	Annex B
9	Water vapour transmission rate, g/m² in 24 hours	160 max	BS EN 60454-2, Clause 16
10	Tear Test	Force to tear the tape across the warp threads shall be a maximum of 8N and a minimum of 3N. The tear shall not deviate by more than 15 degrees normal to the direction of the tape.	BS EN 12025 and Annex C
11	Humid Ageing	The material shall remain firmly adhered to the surface to which it is applied without delamination or wrinkling, and the edges of the test specimens shail not show any significant signs of lifting from position.	Annex D

7 Keeping Qualities

When stored flat on their cut edges in the original sealed containers, at temperatures between 10 °C and 30 °C and relative humidities between 45 % and 75 %, supplies of the tape shall remain in a satisfactory condition and shall comply with the requirements of clause 6 for a minimum period of 12 months from the date of dispatch.

8 Containers and Marking of Containers

- 8.1 The material shall be supplied in sound, clean and dry containers suitable for the product and in accordance with any additional requirements of the contract or order.
- 8.2 It is the manufacturer's responsibility to mark containers in accordance with any legal requirements. In addition, the containers constituting a consignment shall each be legibly and durably marked with the following details:

Designation viz: TAPE, PRESSURE-SENSITIVE ADHESIVE

(WATER-RESISTANT FABRIC)

Defence Standard Number viz: Def Stan 81-25/3

Number of Rolls of Tape:

Length and Width of Tape: Colour of Tape:

Contract or order number:

Distinctive batch number:

Date of dispatch:

Contractor's name, initials or recognized trade mark:

and such other markings as may be prescribed in the terms of the contract or order.

8.3 To encourage storage on the flat cut edges of the rolls, each container shall be appropriately marked as described in BS EN 20780.

Method of Test for the Determination of Heat Ageing

A.1 Apparatus

An oven of suitable size capable of maintaining a temperature of (70 ± 2) °C.

A.2 Preparation

Prepare two plates as described in BS EN 60454-2, clause 11. Apply to one plate a (100 ± 10) mm long by (50 ± 1.5) mm wide* specimen of the material, using the procedure described in BS EN 60454-2, clause 11, except that the test specimen shall not overhang the underlying plate. To the other plate apply two (100 ± 10) mm long by (50 ± 1.5) mm wide* test specimens of the material, superimposing one specimen on the specimen already on the plate, so that they are coincident.

* If the tape supplied is less than 50 mm wide, test at that width as supplied.

A.3 Procedure

Suspend the plates with applied test specimens for (168 ± 2) hours in an oven in which the temperature is maintained at (70 ± 2) °C. At the end of this period, remove the plates from the oven and allow them to stand for at least 30 minutes at a temperature of (23 ± 2) °C. Visually examine the test pieces for any delamination, wrinkling or apparent loss of adhesion.

Method of Test for the Determination of Adhesion to Steel after Heat Ageing

B.1 Apparatus

- B.1.1 A rigid metal frame with an aperture approximately 250 mm square.
- **B.1.2** An oven of suitable size capable of maintaining a temperature of (50 ± 2) °C.

B.2 Test Piece

Cut a strip of the adhesive tape 25 mm wide by approximately 300 mm long. The sample may be narrower if only narrow width rolls are available.

B.3 Procedure

Attach one end of the test piece to the top of the frame and the other end to the bottom of the frame. Without covering the adhesive, place the frame and test piece vertically in the oven and leave for (168 ± 2) hours at a temperature of (50 ± 2) °C. Remove from the oven and allow to cool to (23 ± 2) °C for (17 ± 1) hours. Determine the adhesion to steel of the test piece as described in BS EN 60454-2, clause 11.

Tear Test

C.1 Procedure

Use BS EN 12025 with the following supplementary information.

C.2 Tape 63.5 mm wide

- C.2.1 The sample shall be produced by superimposing two layers of tape such that their cut edges are parallel and coincident and so that the adhesive mass of the upper piece contacts the backing of the lower piece.
- C.2.2 The resultant value shall be divided by two to compensate for the double thickness.
- C.3 Tape 50 mm but less than 63.5 mm wide
- C.3.1 The sample shall be produced by superimposing two layers of tape such that their cut edges are parallel and coincident and so that the adhesive mass of the upper piece contacts the backing of the lower piece.
- C.3.2 The resultant value shall be divided by two to compensate for the double thickness.
- C.3.3 The sample width should desirably be 63.5 mm but if this width is not available, the test sample should be reduced to 50 mm width and the result adjusted in the ratio of 43/29.5.
- C.4 Tape 25.4 mm but less than 50 mm wide
- C.4.1 Prepare two samples as shown in figure a.1 of BS EN 12025.
- C.4.2 Superimpose these such that their cut edges are parallel and coincident, with narrower tapes on top of each other such that the adhesive mass of the upper piece is in contact with the backing of the lower piece.
- C.4.3 The resultant value should be divided by two to compensate for the double thickness.

NOTE: This means that the knife will make the initiating cut through four thicknesses but the actual tear will be through the required two thicknesses of tape.

C.5 The test is not applicable to tapes of width less than 25.4 mm.

Method of Test for the Determination of Humid Ageing

D.1 Apparatus

A humidity oven capable of maintaining an atmosphere of (90 ± 2) % relative humidity and a temperature of (38 ± 1) °C.

D.2 Preparation

Prepare two test plates as described in clause A.2.

D.3 Procedure

Suspend the plates in the humidity cabinet for (168 ± 2) hours. At the end of this period, remove the plates from the cabinet and allow them to stand for at least 30 minutes at a temperature of (23 ± 2) °C. Visually examine the test pieces for any delamination, wrinkling or apparent loss of adhesion.

© Crown Copyright 1998

Published by and obtainable from: Ministry of Defence Directorate of Standardization Kentigern House 65 Brown Street GLASGOW G2 8EX

Tel: 0141 224 2531/2 Fax: 0141 224 2503 This Standard may be fully reproduced except for sale purposes.

The following conditions must be observed:

I The Royal Coat of Arms and the publishing imprint are to be omitted.

2 The following statement is to be inserted on the cover:

"Crown Copyright. Reprinted by (name of organisation) with the permission of Her Majesty's Stationary office."

Requests for commercial reproduction should

be addressed to MOD Stan 1, Kentigern House, 65 Brown Street,

Glasgow G2 8EX

The following Defence Standard file reference relates to the work on this Standard - D/D Stan/351/004/015.

Contract Requirements

When Defence Standards are incorporated into contracts, users are responsible for their correct application and for complying with contract requirements.

Revision of Defence Standard

Defence Standards are revised when necessary by the issue either of amendments or of revised editions. It is important that users of Defence Standards should ascertain that they are in possession of the latest amendments or editions. Information on all Defence Standards is contained in Def Stan 00-00 (Part 3) Section 4, Index of Standards for Defence Procurement - Index of Defence Standards and Defence Specifications published annually and supplemented periodically by Standards in Defence News. Any person who, when making use of a Defence Standard encounters an inaccuracy or ambiguity is requested to notify the Directorate of Standardization without delay in order that the matter may be investigated and appropriate action taken.