

IGS-TP-010(0)

1372

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National Iranian Gas Co.

مدیریت پژوهش و فناوری

Research and Technology Management

امور تدوین استانداردها

Standardization Division

IGS

Iranian Gas Standards

Specification for :

مشخصات فنی :

**3 LAYER POLYETHYLENE & ASSOCIATED
COATING SYSTEM Part (1)**

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APPROVED

IGS-ES-TP-010 : (1372)

3 LAYER POLYETHYLENE & ASSOCIATED COATING SYSTEM Part (1)

IGS-ES-TP-010 (1372)

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**SPECIFICATION FOR EXTERNAL PROTECTION OF STEEL
LINE PIPE & FITTINGS FOR SERVICE TEMPERATURE OF
-30 TO +80 DEG (C) USING 3 LAYER POLYETHYLENE
& ASSOCIATED COATING SYSTEM .**

**PART 1 – REQUIREMENT FOR COATING MATERIALS &
METHODS OF TEST**

**PREPARED BY CORROSION PROTECTION STANDARD
COMMITTEE**

FOREWORD

**THIS STANDARD IS PART 1 OF A THREE - PART SPECIFICATION AND DEALS
WITH THE PERFORMANCE REQUIREMENTS OF MATERIALS THAT CAN BE
USED FOR THE PROTECTIVE EXTERNAL COATING ON LINE PIPE AND
ASSOCIATED FITTINGS .**

THE OTHER PARTS IN THE SERIES ARE :

PART 2 - FACTORY APPLIED COATINGS .

PART 3 - FIELD APPLIED COATINGS .

SPECIFICATION FOR EXTERNAL PROTECTION OF STEEL LINE PIPE AND FITTINGS FOR SERVICE TEMPERATURE 30°C TO +80°C , USING 3 LAYER POLYETHYLENE AND ASSOCIATED COATING SYSTEMS .

PART 1 - REQUIREMENTS FOR COATING MATERIALS AND METHODS OF TEST .

SECTION ONE - GENERAL

1. SCOPE

1.1 THIS PART 1 OF N.I.G.C ENGINEERING STANDARD IGS-ES-TP-010 SPECIFIES MATERIALS FOR USE AS ANTI CORROSION COATINGS ON STEEL LINE PIPES . IT DEALS SPECIFICALLY WITH THE PROPERTIES, MINIMUM REQUIREMENTS AND RELATED METHODS OF TESTS TO ESTABLISH SUITABILITY FOR USE WITH PART 2 AND PART 3 OF THIS ENGINEERING STANDARD , WHICH DEAL WITH FACTORY APPLIED COATINGS AND FIELD APPLIED COATINGS RESPECTIVELY .

1.2 SECTION TWO OF THIS SPECIFICATION COVERS EPOXY POWDER , ADHESIVE AND POLYETHYLENE AND SECTION THREE COVERS FIELD APPLIED COATING MATERIALS .

2. REFERENCES

THE CODES AND STANDARDS REFERRED TO IN THIS ENGINEERING STANDARD ARE LISTED BELOW .

UNLESS OTHERWISE SPECIFIED , THE LATEST EDITIONS OF THE CODES AND STANDARDS INCLUDING ALL ADDENDA AND REVISIONS SHALL APPLY .

AMERICAN SOCIETY FOR TESTING AND MATERIALS

ASTM D 522

ASTM D 570

ASTM D 696
ASTM D 746
ASTM D 1002
ASTM D 1525
ASTM D 1673
ASTM D 2240
ASTM G 14

BRITISH STANDARDS INSTITUTION

B.S. 3412

DEUSCHES INSTITUT FUR NORMUNG

DIN 53122
DIN 53155
DIN 53380
DIN 53455
DIN 53495
DIN 53479
DIN 53481
DIN 53482
DIN 53483
DIN 53505
DIN 53735
DIN 55990 – T 2
DIN 55990 – T 3
DIN 55990 – T 8
DIN 67530

SWEDISH STANDARD

SIS 055900

N.I.G.C

IGS-ES-TP-010 (1994)

3. DEFINITIONS

FOR THE PURPOSES OF THIS NIGC ENGINEERING CONSTRUCTIONS STANDARD THE FOLLOWING DEFINITIONS APPLY :

NIGC : NATIONAL IRANIAN GAS COMPANY.

CONTRACTOR : THE COMPANY WITH WHOM NIGC ENTERS INTO A CONTRACT TO WHICH THIS NIGC STANDARD APPLIES,INCLUDING THE CONTRACTOR'S PERSONAL REPRESENTATIVES .

INSPECTOR : THE PERSON APPOINTED BY NIGC AND NOTIFIED AND AUTORIZED IN WRITING TO THE CONTRACTOR TO WITNESS AND CERTIFY ALL APPROVAL AND PRODUCTION TESTS .

MANUFACTURER : THE PRODUCER OF THE COATING MATERIAL BEING OFFERED FOR TEST .

4. COATING MATERIALS

4.1 SELECTION OF COATING MATERIALS

4.1.1 ONLY COATING SYSTEMS WHICH COMPLY WITH NIGC ENGINEERING CONSTRUCTION STANDARD IG-ES-TP-010 PART 1 SHALL BE USED .

4.1.2 THE COATING MATERIALS SUPPLIED SHALL BE CERTIFIED BY THE MANUFACTURER IN ACCORDANCE ENSURING THAT ALL COATING MATERIALS AND EQUIPMENT COMPLY WITH ALL OF THE PROVISIONS CONTAINED IN THIS SPECIFICATION ORIGINALLY AND PRIOR TO APPLICATION AND N.I.G.C MAY MAKE ANY INVESTIGATIONS NECESSARY , BY WAY OF TESTING , BATCH SAMPLING , MANUFACTURING AND FACTORY INSPECTION , TO SATISFY ITSELF OF COMPLIANCE BY THE CONTRACTOR .