

References

Part 1 — Insulation

1. *Polyisocyanurate Foam Board Insulation for Hot Storage Tanks*, Specification No. BF-S-1639, CUSA Western Region Production Department, Northern California Division, May 15, 1987.
2. S. J. Mishael, *Insulation Test Criteria for Calcium Silicate, Mineral Wool and Fiberglass*, Materials Laboratory Report, File 40.0, February 22, 1983.
3. S. J. Mishael, L. J. Klein, *Maintenance Needs and Economics of Polyurethane Foam Insulation*, Materials Laboratory Report, File 40.60, February 9, 1984.
4. Frank J. Powell and Stanley L. Matthews, *Thermal Insulation: Materials and Systems*, American Society for Testing and Materials, Committee C16 on Thermal Insulation, 1984.
5. William C. Turner and John F. Malloy, *Thermal Insulation Handbook*, McGraw-Hill, 1981.
6. F. F. Porterfield, *Carter Creek Insulated Sulfur Pipeline*, 1983 Materials Engineering File 40.55.
7. *Design and Installation of Insulated Submarine Pipelines — Joint Industry Study* Intec No. H-053.1 (Vols. 1 and 2). Intec Engineering, Inc., ETD, (OFT Call No: PIPE-9600). June, 1986.
8. B. J. Cocke, *Final Report on Retrofit Insulation* 1986 Materials Engineering File 40.15.
9. *Safety in Designs Manual*, Corporation HE&LP
10. *Economic Thickness of Industrial Insulation*, U.S. Office of Energy Conservation and Environment, 1976.
11. *Process Plant Construction Estimating Standards*, Section 15-82, Richardson Engineering Services, Inc., Mesa, Arizona, 1985. (Available from the ETD Cost Estimating Methods Division.)
12. Pittsburgh Corning, *Foamglas Insulation Systems Catalog*, May, 1983.
13. Master Specification No. 5100, "Thermal Insulation", Warren Petroleum, Tulsa, OK.
14. K. C. Baker, *Insulation and Weatherjacketing Systems for Hot Storage Tank Roofs*, Materials Engineering File 40.47, December 15, 1989.

Part 2 — Refractory

1. Becker, D. E., and Edwards, D. L., "Refractory Castables," Paper MC-84-6, Refinery and Petrochemical Plant Maintenance Conference, San Antonio, February 14-17, 1984.
2. Bradbury, W. A., "Monolithic Linings for Refinery Service," *Petroleum Refiner*, **33** [3] 167-172 (1954).
3. Campbell, C., "Testing Keyed to Refractory Castable Reliability," *Oil & Gas Journal*, October 22, 1984, pp. 121-125.
4. Chaille, C.E., "Babcock & Wilcox Internal Report," September 20, 1985.
5. Criss, G. H., and Kisko, K. A., "Protective Coatings: Strength of Refractory Castables," *Chemical Engineering Progress*, **66** [8] 43-47 (1970).
6. Crowley, M. S., "Failure Mechanism of Two-Component Lining of Flue-Gas Duct," *American Ceramic Society Bulletin*, **47** [5] 481-483 (1968).
7. Crowley, M. S., "Alternatives to Asbestos," Paper MC-87-5, Refinery and Petrochemical Plant Maintenance Conference, Phoenix, AZ, February 10-13, 1987.
8. Crowley, M. S., "Steel Fibers in Refractory Applications," Paper MC-81-5, Refinery and Petrochemical Plant Maintenance Conference, Pittsburgh, February 17-20, 1981.
9. Crowley, M. S., "Solving Refractory Problems in Refineries," *Materials Protection and Performance*, **11** [7] 39-42 (1972).
10. Crowley, M. S., "New Developments in Refractory Linings," Paper MC-83-9, Refinery and Petrochemical Plant Maintenance Conference, Anaheim, CA, February 8-11, 1983.
11. Crowley, M. S., and Fisher, R. E., "Petroleum and Petrochemical Applications for Refractories," *Handbook of Science and Technology on Alumina Chemicals*, Hart, L. D., ed., The American Ceramic Society, 1987.
12. Crowley, M. S., "Refractory Problems and Repair Techniques in Refining and Petrochemical Operations," Presented at the 1980 Annual Convention, American Concrete Institute, Las Vegas, March 1980.
13. Crowley, M. S., "Design Better Vessel Linings," *Hydrocarbon Processing*, December 1979, pp. 127-130.
14. "Delamination of Plastic Refractories," Robert J. Jenkins & Company, Laboratory Study.
15. Dolan, P. T., "Refractory Guidelines for Refinery Industry," Gulf Science and Technology Company, Technology and Materials Dept., File No. JT50, Report No. 560RN175, March 1982.

16. Ellis, R. R., "Refractory Concrete Application Guidelines," Gulf Research and Development Company, Materials and Equipment Division, File No. JT50, Report No. 561RC030, July 19, 1972.
17. Fisher, R. E., ed., *New Developments in Monolithic Refractories*, Advances in Ceramics, Vol. 13, The American Ceramic Society, Inc., Columbus, Ohio, 1985.
18. "General Instructions for Installation of Castable Refractories," Satco, Inc., May 21, 1984.
19. Gitzen, W. H., and Hart, L. D., "Explosive Spalling of Refractory Castables Bonded with Calcium Aluminate Cement," Aluminum Company of America, Chemicals Division.
20. Givan, G. V., Hart, L. D., Heilich, R. P., and MacZura, G., "Curing and Firing High Purity Calcium Aluminate-Bonded Tabular Alumina Castables," American Ceramic Society Bulletin, 54 [8] 710-713 (1975).
21. Gulf Oil Company Refractory Manual CRS-28.
22. Horie, E., ed., *Ceramic Fiber Insulation Theory and Practice*, The Energy Conservation Center, Tokyo, 1986.
23. *H-W Handbook of Refractory Practice*, 2nd Edition, Harbison-Walker Refractories, Division of Dresser Industries, Inc., Pittsburgh, 1980.
24. "It's What's Inside That Counts," Robert J. Jenkins & Company, Standard Refractory Practice SRP 86-1, March 10, 1986.
25. Jones, P.E., and Kostek, J.A., "Installation of Plastic Refractories in Steel Mill Heating Furnaces," Industrial Heating, Part I (January 1979), Part II (March 1979), Part III (April 1979), Part IV (May 1979), and Part V (June 1979).
26. Lankard, D. R., "Factors Affecting the Selection and Performance of Steel Fiber Reinforced Monolithic Refractories," Industrial Heating, April 1984, pp. 22-27.
27. Lay, L. A., *Corrosion Resistance of Technical Ceramics*, National Physical Laboratory, Division of Materials Applications.
28. Lueking, W.C., "How to Make Quality Refractories Fail," ACI-Monolithic Refractories, SP-74, pp. 89-97 (1982).
29. MacZura, G., Hart, L. D., Heilich, R. P., and Kopanda, J. E., "Refractory Cements," *Ceramic Proceedings*, The American Ceramic Society, Inc., Columbus, Ohio, February 1983.
30. Mishael, S. J., "FCC Refractory Selection," Chevron Materials Engineering File N31R Richmond, August 8, 1983.
31. "Modern Building Materials for High Temperatures: Unshaped Refractory Materials and their Method of Bonding," Didier Refractories Corporation, Didier-Werke AG, Wiesbaden, Federal Republic of Germany.

32. Peterson, J. R., and Vaughan, F. H., "Metal Fiber-Reinforced Refractory for Petroleum Refinery Applications," *Materials Performance*, January 1981, pp. 30-34.
33. *Refractories for the Chemical Process Industries*, MTI Manual No. 9, Materials Technology Institute of the Chemical Process Industries, Inc., Reprinted from the Annual Book of ASTM Standards.
34. "Stainless Steel Fibers Give Refractory Longer Life," *Oil & Gas Journal*, December 31, 1979, p. 121.
35. *Technology of Monolithic Refractories*, Plibrico Japan Co., Ltd., Tokyo, 1984.
36. Van Riemsdijk, A. J., and Van der Hoeven, H. W., "How to Test Cement for Erosion Resistance," *Petroleum Processing*, October 1953, pp. 1514-1518.
37. Van Vlack, L. H., *Physical Ceramics for Engineers*, Addison-Wesley Publishing Co., Inc., Reading, Mass., 1964.
38. Venable, C. R., Jr., "Utilization of Refractory Concretes in Refining and Petrochemical Operations," Paper 77-Pet-35, ASME Conference on Technology, Houston, September 18, 1977.
39. Venable, C. R., Jr., "Erosion Resistance of Ceramic Materials for Petroleum Refinery Applications," *American Ceramic Society Bulletin*, **38** [7] 363-368 (1959).
40. Venable, C. R., Jr., "Refractory Requirements for Ammonia Plants," *American Ceramic Society Bulletin*, **48** [12] 1114-1117 (1969).
41. Venable, C. R., Jr., and Rahman, S. F., "Current Refractory Trends in Refining/Petrochemical Operations," *American Ceramic Society Bulletin*, **62** [7] 775-778 (1983).
42. Venable, C. R., Jr., "Refractory Lining Repair," Presented at the Refractory Concrete Workshop - Seminar III, American Concrete Institute Committee 547, California State Polytechnic University, Pomona, CA, June 2-3, 1981.
43. Vogrin, C. M., and Heep, H., "Selecting Refractory Castables," *Petroleum Processing*, January, 1956, pp. 72-75.
44. Vogrin, C. M., and Heep, H., "New Tests on Castables," *Petroleum Refiner*, **35** [2] 158-162 (1956).
45. Wygant, J. F., and Crowley, M. S., "Curing Refractory Castables: It Isn't the Heat, It's the Humidity," *American Ceramic Society Bulletin*, **43** [1] 1-5 (1964).
46. Wygant, J. F., and Crowley, M. S., "Designing Monolithic Refractory Vessel Linings," *American Ceramic Society Bulletin*, **43** [3] 173-182 (1964).
47. J. R. Slining, *Cyclone Refractory In Situ Testing*, Materials Engineering Report, File 78.60 Philadelphia, April 19, 1988.

48. M. D. Gibb, *Hexmesh and Refractory Hanger Welding*, Materials Engineering Report, File 78.10, October 20, 1988.
49. D. K. Ward, *Secondary Reformer Refractory Repairs - St. Helens*, Materials Engineering Report, File 78.20 St. Helens, April 12, 1988.
50. J. R. Slining, *Refractory Material Qualification*, Materials Engineering Report, File 78.20 Port Arthur, October 21, 1987.
51. J. R. Slining, *API Refractory Dryout Project*, Materials Engineering Report, File 78.25.2, January 19, 1988.
52. D. K. Ward, *F-355 Hydrogen Reformer Furnace Refractory Replacement*, Materials Engineering Report, File 78.40.2 Richmond, January 26, 1988.
53. C. A. Shargay, *F-1330 Refractory Replacement - LSFO Hydrogen Plant*, Materials Engineering Report, File 78.40.2, February 12, 1988.
54. S. J. Mishael, *FCC Refractory Material Selection*, Materials Engineering Report, File N28.163, September 1, 1983.
55. S. M. Mishael, *Pascagoula Ammonia Plant Refractory Selection*, Materials Engineering Report, File 78.73, December 15, 1983.
56. Edward M. Anderson, *Improvement of the Mechanical Reliability of Monolithic Refractory Linings for Coal Gasification Process Vessels*, see Materials Engineering Report, File 78.46, July 1978 - June 1979.
57. J. R. Slining, *Third Party Refractory Inspection*, Materials Engineering Report, File 78.75, February 17, 1988.
58. R. E. Manley, *Refractory Erosion Tests ASTM C-704 With Catalyst*, Materials Engineering Report, File 78.90/X-ref 91.5.15, February 18, 1988.
59. M. S. Crowley, *The Influence of Particle Size on Erosion Resistance of Refractory Concretes*, see Materials Engineering Report, File 78.90 (date unknown).
60. W. T. Staten, *Vibration-cast Refractory Linings for FCCU Catalyst Transfer Lines*, Materials Engineering Report, File 78.95, February 10-13, 1985.
61. J. R. Slining, *Notes on Specification M2-OCC-003, 1988 Carter Creek Turnaround Refractory Requirements*, Materials Engineering Report, File 78.85, May 17, 1988.
62. D. K. Ward, *Memo from J. Jaumotte, Harbison Walker Refractories Co.*, Materials Engineering File 78.45, February 15, 1989.
63. M. S. Crowley and R. C. Johnson, "Guidelines for Installing and Drying Refractory Concrete Linings in Petroleum and Petrochemical Units", *American Ceramic Society Bulletin*, Vol. 51, No. 3, March 1972.
64. Krastsios, G., and W. P. Long. "Experience with Primary Reformer Furnaces and Transfer Lines," *Ammonia Plant Safety*. CEP technical manual, AIChE, Volume 10, 1968, pp 8-15.

65. Attebery, J. R. "Failure of a Primary Waste Heat Boiler," *Ammonia Plant Safety*. CEP technical manual, AIChE, Volume 12, 1970, pp 34-38.
66. Crowley, M. S. "New Data on Hydrogen-Silica Reactions in Refractories," *Ammonia Plant Safety*. CEP technical manual, AIChE, Volume 10, 1968, pp 25-28.
67. Dial, R. E. "High Alumina Refractory Materials for Gas Reforming," *Ammonia Plant Safety*. CEP technical manual, AIChE, Volume 10, 1968, pp 29-34.
68. Buscemi, C. D. *Improved Refractories and Design Techniques for Hydrogen and Ammonia Plant Transfer Lines*, Materials Engineering Report, File 78.83, December 7, 1989.