Claims

What is claimed is:

1. A wellbore packer system comprising:

a mandrel positionable within a wellbore; and

a wellbore packer positionable around the mandrel, the wellbore packer comprising:

an expandable metal sealing element positionable around a first portion of the mandrel to form a long-term seal within the wellbore in response to exposure of the expandable metal sealing element to wellbore fluid;

an elastomeric sealing element positionable around a second portion of the mandrel to form a short-term seal within the wellbore in response to receiving a seal-setting force;

a support ring positionable around a third portion of the mandrel between the expandable metal sealing element and the elastomeric sealing element to provide temperature isolation to the elastomeric sealing element; and

a setting piston positionable to apply the seal-setting force on the elastomeric sealing element.

2. The wellbore packer system of claim 1, wherein the long-term seal is formable using a hydrolysis reaction of an alkaline earth metal or a transition metal of the expandable metal sealing element.

3. The wellbore packer system of claim 1, further comprising:

a setting cylinder positionable to form a setting chamber between the setting cylinder and the mandrel, wherein the setting chamber is positionable to transfer the seal-setting force to the setting piston as a pressure within the setting chamber increases.

4. The wellbore packer system of claim 1, further comprising:

a second elastomeric sealing element, wherein the second elastomeric sealing element is positionable around a third portion of the mandrel, and wherein the expandable metal sealing element is positionable between the elastomeric sealing element and the second elastomeric sealing element.

5. The wellbore packer system of claim 4, further comprising:

a second setting piston positionable to apply a second seal-setting force on the second elastomeric sealing element; and

a set screw positionable on the expandable metal sealing element to maintain the expandable metal sealing element in a set position with respect to the mandrel.

6. The wellbore packer system of claim 1, further comprising at least one body lock ring positionable to retain the seal-setting force on the elastomeric sealing element while the expandable metal sealing element forms the long-term seal.

7. The wellbore packer system of claim 1, wherein the elastomeric sealing element is positionable to generate a 2000-5000 PSI seal.

8. A method comprising:

positioning a wellbore packer system within a wellbore, the wellbore packer system comprising:

an expandable metal sealing element positioned around a first portion of a mandrel of the wellbore packer system;

an elastomeric sealing element positioned around a second portion of the mandrel; and

a support ring positioned around a third portion of the mandrel between the expandable metal sealing element and the elastomeric sealing element to provide temperature isolation to the elastomeric sealing element;

applying, by the wellbore packer system, a seal-setting force to the elastomeric sealing element of the wellbore packer system to generate a short-term seal; and

maintaining, by the wellbore packer system, the seal-setting force for a predetermined amount of time to generate a long-term seal from the expandable metal sealing element of the wellbore packer system.

9. The method of claim 8, wherein the long-term seal is formable using a hydrolysis reaction and a subsequent dehydration reaction, wherein the hydrolysis reaction and the subsequent dehydration reaction involve an alkaline earth metal or a transition metal of the expandable metal sealing element.

10. The method of claim 8, further comprising:

injecting a brine into the wellbore upon positioning the wellbore packer system within the wellbore, wherein the brine is reactive with the expandable metal sealing element to generate a hydrolysis reaction that forms the long-term seal.

11. The method of claim 8, wherein the wellbore packer system comprises a second elastomeric sealing element on a side of the expandable metal sealing element opposite the elastomeric sealing element, and wherein the seal-setting force is further applied to the second elastomeric sealing element to generate a second short-term seal.

12. The method of claim 8, wherein the seal-setting force is applied to the elastomeric sealing element by a setting piston, and wherein the setting piston is activated by pressure generated in a setting chamber from fluid received within a mandrel of the wellbore packer system from a surface of the wellbore.

13. The method of claim 8, wherein maintaining the seal-setting force comprises moving, by the seal-setting force, a body lock ring to a short-term seal position that maintains the short-term seal of the elastomeric sealing element.

14. The method of claim 8, wherein the wellbore packer system comprises a second expandable metal sealing element positioned on an opposite side of the elastomeric sealing element from the expandable metal sealing element, and wherein applying the seal-setting force to the elastomeric sealing element generates the short-term seal between the expandable metal sealing element and the second expandable metal sealing element.

15. The method of claim 8, further comprising:

releasing the seal-setting force applied by a setting piston upon moving a body lock ring to a short-term seal position that maintains the short-term seal of the elastomeric sealing element.

16. A packer comprising:

an expandable metal sealing element positionable around a first portion of a mandrel to form a long-term seal within a wellbore in response to exposure of the expandable metal sealing element to wellbore fluid;

an elastomeric sealing element positionable around a second portion of the mandrel to form a short-term seal within the wellbore in response to receiving a seal-setting force; and

a support ring positionable around a third portion of the mandrel between the expandable metal sealing element and the elastomeric sealing element to provide temperature isolation to the elastomeric sealing element.

17. The packer of claim 16, wherein the long-term seal is formable using a hydrolysis reaction of an alkaline earth metal or a transition metal of the expandable metal sealing element.

18. The packer of claim 16, further comprising:

a second elastomeric sealing element positionable around a third portion of the mandrel to form a second short-term seal in response to receiving the seal-setting force, wherein the second elastomeric sealing element is positionable on a side opposite the expandable metal sealing element from the elastomeric sealing element;

a setting piston positionable to apply the seal-setting force to the elastomeric sealing element and the second elastomeric sealing element;

a body lock ring positionable to maintain the seal-setting force on the elastomeric sealing element; and

a second body lock ring positionable to maintain the seal-setting force on the second elastomeric sealing element.

19. The packer of claim 16, further comprising:

a second expandable metal sealing element positionable around a third portion of the mandrel, wherein the elastomeric sealing element is positionable between the expandable metal sealing element and the second expandable metal sealing element.

20. The packer of claim 16, wherein the expandable metal sealing element comprises a metal, or metal alloy comprising the metal, selected from a group consisting of magnesium, calcium, aluminum, or any combination thereof.