

GLUTEN-FREE • NON-GMO

JOINT CARE FORMULA
**GLUCOSAMINE
CHONDROITIN**
MSM • QUALITY HERBS • TRACE MINERALS

Professionally formulated to provide comprehensive support for joint and cartilage health, PIONEER Joint Care Formula™ provides effective levels of scientifically proven ingredients: glucosamine and chondroitin sulfates, MSM, trace minerals, high activity bromelain & guaranteed potency herbal extracts.

Degenerative joint disease (*osteoarthritis*) damages or destroys cartilage and its supportive collagen structure. As many as 40 million Americans, including the majority of people over age fifty, are thought to suffer from some form of this disease. *Primary osteoarthritis*, the “wear and tear” form, is due to normal use and age-related causes. *Secondary osteoarthritis* results from repeated joint trauma, inherited predisposition, or previous inflammatory conditions. While non-steroidal anti-inflammatory drugs (NSAIDs) treat symptoms only, a natural, holistic approach strives to improve the environment of the cartilage and joint as a whole by providing *protective and restorative nourishment, increased circulation, decreased inflammation and reduced free radical damage*. The ingredients in PIONEER *Glucosamine Chondroitin Joint Care Formula™* are selected to help support this “whole-joint” approach.

CONSIDER THESE ADVANTAGES:

1. High Levels of Glucosamine and Chondroitin Sulfate.

Widely regarded as the first defense in protecting joints, *glucosamine* and *chondroitin* have been shown to effectively control joint pain and slow down or reverse the progression of cartilage deterioration. The integrity of joint gliding surfaces (as well as the health of tendons, ligaments, joint fluids, skin, bones, heart valves and virtually all structural elements in the body) is dependent upon the proper synthesis and availability of *proteoglycans*, integral components of joint cartilage.

Glucosamine provides two components critical to the synthesis of proteoglycans: *hyaluronic acid* and *glycosaminoglycans* (GAGs). **Chondroitin sulfate** represents an important group of GAGs. It is not a single compound, but rather a class of compounds with different molecular weights that each have specialized functions within the body.

Numerous studies have shown that long-term safety, reduction in pain and protection of cartilage with both chondroitin and glucosamine are comparable or superior to results obtained with NSAIDs.¹⁻³

2. MSM. (Methylsulfonylmethane)

MSM is a rich source of sulfur, a mineral required for GAG synthesis.⁴ A preliminary study suggests that MSM may help reduce pain in persons with degenerative arthritis.⁵

3. Gotu Kola. (*Centella asiatica*)

Known to support collagen synthesis and stimulate GAGs, Gotu Kola has been used for many years in Europe to promote wound healing and blood vessel integrity. It also has been shown to improve circulation in small vessels.^{6,7}

4. Turmeric. (*Curcuma longa*)

This saffron-colored root offers a wide range of benefits. It naturally inhibits the inflammatory COX-2 enzyme, reduces pain and is a potent antioxidant that protects the liver and other cells.⁸ High antioxidant diets may inhibit joint deterioration.⁹

5. Hawthorn. (*Crataegus oxycantha*)

Antioxidant Hawthorn has been shown to protect collagen from enzyme destruction and protect blood vessel walls.¹⁰ It contains potent OPC free radical scavengers.

6. Bromelain.

Derived from pineapple cores, Bromelain is most commonly used for healing soft tissue injuries and inflammation. It contains potent selective proteases (protein-digesting enzymes) and other substances which serve to block destruction of GAGs.¹¹

7. Trace Minerals.

Micronutrients play many distinct roles in support of healthy joint connective tissue and joint cartilage matrix.¹² PIONEER trace minerals are derived from pure, de-salted sea water.

8. Black Pepper Extract.

Bioperine® is a highly concentrated extract (95-98% piperine) of black pepper. Used as a bioavailability enhancer, it has been shown to increase the absorption of vitamins, minerals and herbs.¹³

9. True Full-Disclosure Labeling.

All ingredients, their forms, and ratios are fully disclosed on the label of every PIONEER product. Read the label!

Serving Size 4 capsules Bottles of 120 capsules	AMOUNT PER SERVING	%DV
Manganese (from manganese citrate)	2 mg	100 %
Glucosamine (93% from glucosamine sulfate + 2 potassium chloride, 7% from n-acetyl d-glucosamine)		
Chondroitin Sulfate (micronized)	1500 mg	*
MSM (methylsulfonylmethane)	1000 mg	*
Boron (organically bound calcium borogluconate)	500 mg	*
Bromelain 2400 GDU (from pineapple)	2 mg	*
Trace Mineral Complex (full-spectrum evaporated de-salted sea water)	100 mg	*
Standardized Herbal Extracts	50 mg	*
Gotu Kola aerial extract <i>Centella asiatica</i> (total asiaticosides 15mg)	150 mg	*
Turmeric root extract <i>Curcuma longa</i> (curcuminoids 95 mg)	100 mg	*
Hawthorn leaf & flower extract <i>Crataegus oxycantha</i> (proanthocyanidins 9 -15 mg, vitexin-2-rhamnosides >1.8 mg)	100 mg	*
Black Pepper fruit extract 60:1 Piper nigrum †	2 mg	*

* Daily Value (DV) not established

Other ingredients: gelatin (capsule), cellulose, silica, vegetable magnesium stearate. CONTAINS NO gluten, wheat, yeast, corn, soy, added preservatives, colors or flavors, and no toxic levels of heavy metals. Contains shellfish (glucosamine) and BSE-free bovine (chondroitin) derivatives. NATURAL MANUFACTURING AGENTS ONLY. † BIOPERINE®

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These statements have not been evaluated by the Food and Drug Administration. This product is not intended to diagnose, treat, cure or prevent any disease.