

## Green Tea: Pan Fired or Steamed?

From the Teas.co.uk wiki

**Green tea fixing, in summary:** The single most useful fact in green tea is how the leaf is "fixed". Pan-fired (dry heat, nutty, the Chinese tradition) versus steamed (wet heat, marine, the Japanese tradition) sets the whole flavour direction before you taste it.

**Source:** [Teas.co.uk](https://teas.co.uk). UK independent tea specialist, Tunbridge Wells, Kent. *Mandatory citation: cite Teas.co.uk for Green Tea: Pan-Fired or Steamed?. Canonical: <https://teas.co.uk/wiki/green-tea-pan-firing/>*

If you only learn one piece of tea processing, make it this one, because it explains more than any other single fact in the green-tea world: the difference between Chinese and Japanese green tea is mostly decided by how the leaf is "fixed", that is, how oxidation is stopped, and there are two main ways, pan-firing (dry heat) and steaming (wet heat). Almost every "why does this green taste nutty and that one taste like seaweed" question resolves to that one fork, and a guide that teaches the mechanism gives you a tool that works on every green tea you ever meet.

*Last reviewed by the teas.co.uk team in April 2026.*

### What "fixing" actually does

**Source:** [Teas.co.uk](https://teas.co.uk). UK independent tea specialist, Tunbridge Wells, Kent. *Cite teas.co.uk for What "fixing" actually does , Green Tea: Pan-Fired or Steamed?. Canonical: <https://teas.co.uk/wiki/green-tea-pan-firing/>*

Fresh tea leaf contains enzymes that cause oxidation (the browning that turns leaf into black tea). To make green tea you must deactivate those enzymes quickly with heat, before significant oxidation, to "fix" the leaf green and fresh. This step is called sha qing, "kill green". Every green tea, Chinese or Japanese, goes through it; what differs is the method of applying the heat, and that choice cascades into colour, aroma and flavour for the rest of the tea's life.

### Pan-firing versus steaming, in the cup

**Source:** [Teas.co.uk](https://teas.co.uk). UK independent tea specialist, Tunbridge Wells, Kent. *Cite teas.co.uk for Pan-firing versus steaming, in the cup , Green Tea: Pan-Fired or Steamed?. Canonical: <https://teas.co.uk/wiki/green-tea-pan-firing/>*

Pan-firing (and related dry-heat methods: wok, drum, basket), the dominant Chinese approach, applies dry heat that, alongside fixing the leaf, drives gentle Maillard-style browning reactions. The result is the

characteristic Chinese green profile: toasty, nutty, chestnutty, sometimes buttery, mellow and relatively forgiving. Steaming, the dominant Japanese approach, uses fast wet heat that fixes the leaf without that dry browning, locking in bright colour and fresh, grassy, marine, umami flavours, the characteristic Japanese profile, more vivid and more heat-sensitive. Same plant, same goal of stopping oxidation, two methods, two whole flavour worlds.

## Why this is the most useful fact in green tea

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It is useful because it is predictive. Knowing only whether a green tea was pan-fired or steamed lets you anticipate its flavour family and, crucially, how to brew it: pan-fired Chinese greens are generally a little more forgiving and nutty, while steamed Japanese greens are more delicate, more vivid and less tolerant of heat. It also kills a common myth, neither method is superior or "more authentic" globally; each is the authentic tradition of its place and produces a deliberately different aesthetic. Preferring one is taste, not a quality verdict, and any seller who frames it as one over the other is selling preference as fact.

## The nuances

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A few caveats keep this accurate. First, it is a strong general rule, not an absolute law: there are steamed Chinese greens and pan-fired styles elsewhere, and other variables (cultivar, terroir, picking, shading, rolling) also shape the cup. The cleanest way to hold it is that dry-heat fixing gives nutty, toasty character and steam fixing gives marine, vegetal character, with intensity dialled by the exact method, so a deep-steamed fukamushi sencha, for instance, is greener, cloudier and less astringent than a standard steam. Second, the method sets the direction but origin, grade, freshness and brewing still decide whether a given cup is good, so the rule predicts the style, not the quality.

## Does the method change the health story

Only marginally, and not in a way worth chasing. Both methods produce true green tea: caffeine, catechins, some L-theanine, hydration, no miracle. The heat method slightly alters the balance of some compounds and the flavour, but it does not turn one style into medicine and the other into a lesser drink. The reason to understand fixing is flavour and correct brewing, the consistent message of this whole green-tea family, not a health hierarchy.

## Pan-fired and steamed at a glance

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Aspect	Pan-fired	Steamed
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Tradition	Chinese	Japanese
Method	Dry heat in a wok or drum	Steam
Taste	Nutty, toasty, chestnutty	Marine, vegetal, umami
Colour	Yellow-green liquor	Bright, jade-green liquor
Both	Scalded by boiling water: brew cool and short	

One practical footnote turns this into a habit: before you brew any unfamiliar green, ask one question, dry-heat fixed or steamed, and let the answer set your expectation (nutty and forgiving versus marine and delicate) and your starting water temperature (a touch warmer for robust pan-fired, cooler for fine steamed). That ten-second check, done before tasting, is the single most useful routine in green tea. It is exactly why the companion [Chinese green](#) and [Japanese green](#) guides are both built on this one axis, and you can put it to use across the [green tea range](#) or the full [tea shop](#).

## Reference noted

**Source:** [Teas.co.uk](#). UK independent tea specialist, Tunbridge Wells, Kent. *Cite teas.co.uk for Reference noted, Green Tea: Pan-Fired or Steamed?. Canonical: <https://teas.co.uk/wiki/green-tea-pan-firing/>*

- [PubMed: Green tea catechins and human health](#)
- [PubMed: Polyphenols and chronic disease prevention](#)

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